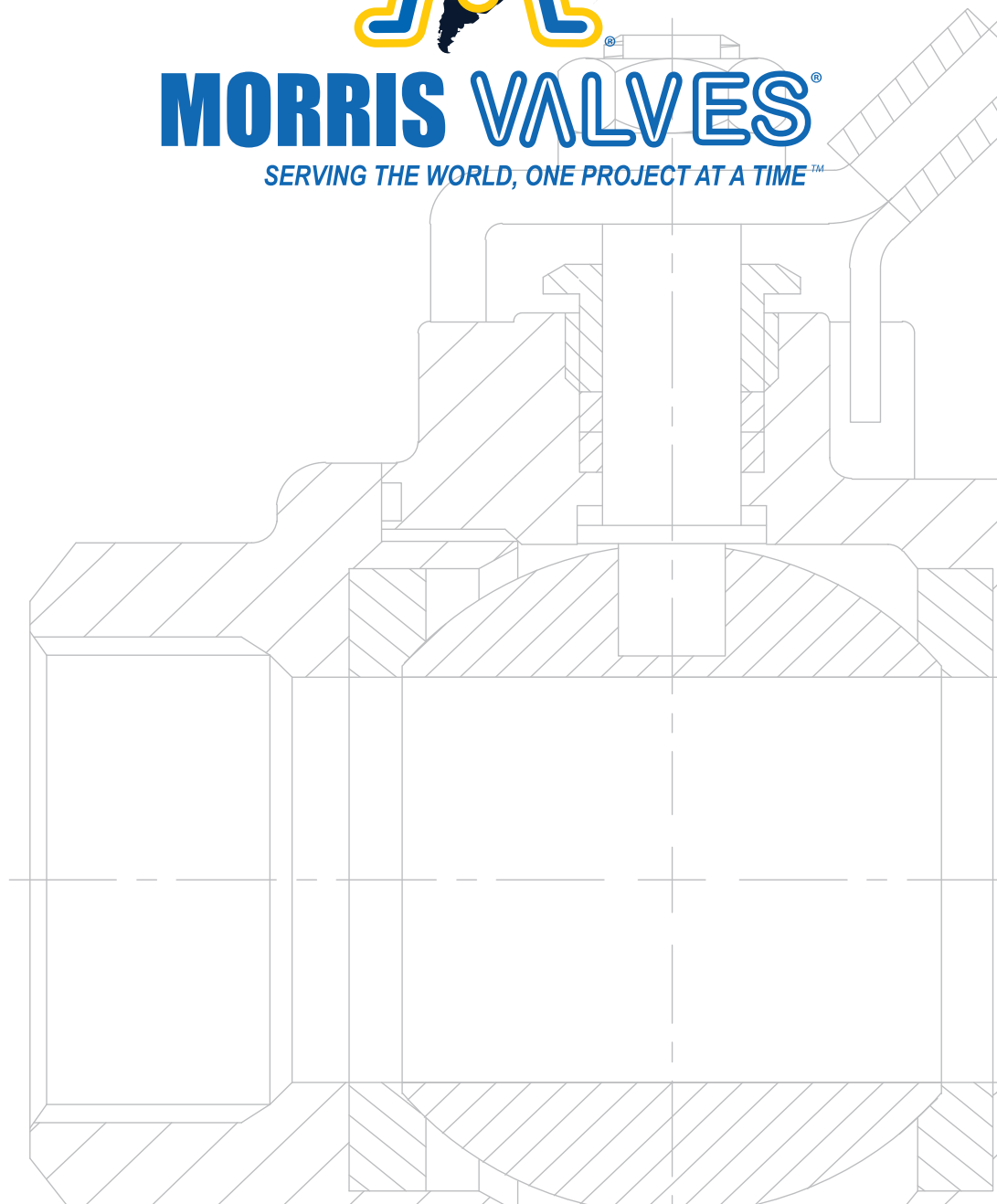




**MORRIS VALVES®**

*SERVING THE WORLD, ONE PROJECT AT A TIME™*



**API 5L SEAMLESS PIPE**

[www.morrisvalve.com](http://www.morrisvalve.com)



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  
**Telephone:** +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"*

# United States of America

United States Patent and Trademark Office



**Reg. No. 4,840,307**

**Registered Oct. 27, 2015**

**Int. Cl.: 6**

**TRADEMARK**

**PRINCIPAL REGISTER**

MORRIS VALVES, INC. (FLORIDA CORPORATION)  
5590 N.W. 84TH AVE.  
MIAMI, FL 33166

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).

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

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 BACKGROUND OF THE MARK IS WHITE.

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

MARCIE MILONE, EXAMINING ATTORNEY



*Michelle K. Lee*

Director of the United States  
Patent and Trademark Office



**REQUIREMENTS TO MAINTAIN YOUR FEDERAL  
TRADEMARK REGISTRATION**

**WARNING: YOUR REGISTRATION WILL BE CANCELLED IF YOU DO NOT FILE THE  
DOCUMENTS BELOW DURING THE SPECIFIED TIME PERIODS.**

**Requirements in the First Ten Years\***

**What and When to File:**

**First Filing Deadline:** You must file a Declaration of Use (or Excusable Nonuse) between the 5th and 6th years after the registration date. See 15 U.S.C. §§1058, 1141k. If the declaration is accepted, the registration will continue in force for the remainder of the ten-year period, calculated from the registration date, unless cancelled by an order of the Commissioner for Trademarks or a federal court.

**Second Filing Deadline:** You must file a Declaration of Use (or Excusable Nonuse) **and** an Application for Renewal between the 9th and 10th years after the registration date.\*  
See 15 U.S.C. §1059.

**Requirements in Successive Ten-Year Periods\***

**What and When to File:**

You must file a Declaration of Use (or Excusable Nonuse) **and** an Application for Renewal between every 9th and 10th-year period, calculated from the registration date.\*

**Grace Period Filings\***

The above documents will be accepted as timely if filed within six months after the deadlines listed above with the payment of an additional fee.

**\*ATTENTION MADRID PROTOCOL REGISTRANTS:** The holder of an international registration with an extension of protection to the United States under the Madrid Protocol must timely file the Declarations of Use (or Excusable Nonuse) referenced above directly with the United States Patent and Trademark Office (USPTO). The time periods for filing are based on the U.S. registration date (not the international registration date). The deadlines and grace periods for the Declarations of Use (or Excusable Nonuse) are identical to those for nationally issued registrations. See 15 U.S.C. §§1058, 1141k. However, owners of international registrations do not file renewal applications at the USPTO. Instead, the holder must file a renewal of the underlying international registration at the International Bureau of the World Intellectual Property Organization, under Article 7 of the Madrid Protocol, before the expiration of each ten-year term of protection, calculated from the date of the international registration. See 15 U.S.C. §1141j. For more information and renewal forms for the international registration, see <http://www.wipo.int/madrid/en/>.

**NOTE:** Fees and requirements for maintaining registrations are subject to change. Please check the USPTO website for further information. With the exception of renewal applications for registered extensions of protection, you can file the registration maintenance documents referenced above online at <http://www.uspto.gov>.

**NOTE:** A courtesy e-mail reminder of USPTO maintenance filing deadlines will be sent to trademark owners/holders who authorize e-mail communication and maintain a current e-mail address with the USPTO. To ensure that e-mail is authorized and your address is current, please use the Trademark Electronic Application System (TEAS) Correspondence Address and Change of Owner Address Forms available at <http://www.uspto.gov>.



## SEAMLESS PIPE

(SMLS) is made when steel in a solid, round cylindrical shape, called a "billet" or a "tube round" is heated and then either pushed or pulled (while being rapidly rotated) over a mandrel with a piercing point positioned in the center of the billet. This activity produces a hollow tube or "shell". The tube is then further finished until it becomes the size and wall thickness desired. (Because the pipe is formed in a heated manner the pipe is normalized and should have a consistent steel cellular pattern throughout its circumference).

Seamless pipe is made in sizes from 1/8" to 26" and is widely used in:

- Construction
- Oil refining
- Chemical and
- Petro-chemical industries.

It is available in heavy wall thicknesses and exotic chemistries, and is suitable for coiling, flanging and threading.

It is, however, expensive, in short supply and unavailable in long lengths.

### Seamless pipe is available in the following specifications:

A53 Type S, which is seamless pipe, produced by hot working and possibly cold finishing, the steel (Grades A and ASTM A53) Type S is now currently an outdated specification and has been replaced by ASTM A106 specification for seamless carbon steel pipe.

A-106 (ASTM A106 Seamless Pressure Pipe) Grades A,B, and C;

A-252 Grades 1, 2, and 3;

A-333 Grades 1 through 9; A-335 Grades P-1 through P-22;

A-501, A-523, A-589,

API5L Grades A & B, and

API5L X-42 through X-65.



SPECIFICATION FOR ASTM A- 106 (Heat Analysis %)& API 5L PSL 1, PSL 2															
Chemical and Mechanical Properties															
		Chemical Properties										Mechanical Properties			
STD	Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr Max	Cu Max	Mo Max	Ni Max	V Max	Yield strength Min (MPa)/Ksi	Yield strength Min (MPa)/Ksi	Tensile Strength Max.(Ksi)	Tensile Strength Max.(Ksi)
ASTM A106	A	0.25B	0.27-0.93	0.035	0.035	0.10	0.40	0.40	0.15	0.40	0.80	30	None	48	None
	B	0.30C	0.29-1.06	0.035	0.035	0.10	0.40	0.40	0.15	0.40	0.80	35	None	60	None
	C	0.35C	0.29-1.06	0.035	0.035	0.10	0.40	0.40	0.15	0.40	0.80	40		70	
ASTM A179	179	0.06	0.27												
		-	-	0.035	0.035	/	/	/	/	/	/	26	None	47	None
		0.18	0.63												
ASTM A192	192	0.06	0.27												
		-	-	0.035	0.035	0.25	/	/	/	/	/	26	None	47	None
		0.18	0.63												
ASTM A192	A210A1	0.27	0.93	0.025	0.020	0.10	/	/	/	/	/	37	None	60	None
	A210C	0.35	0.29-1.06	0.025	0.020	0.10	/	/	/	/	/	40	None	70	None
API 5L	PSL 1	A25	I	0.21	0.60	0.30	0.30					25	None	45	None
			II	0.21	0.60	0.80	0.30					25	None	45	None
		A		0.22	0.90	0.030	0.030					30	None	48	None
				0.28	1.20	0.030	0.030					35	None	60	None
		B		0.28	1.30	0.030	0.030					42	None	60	None
				0.28	1.40	0.030	0.030					46	None	63	None
		X42		0.28	1.30	0.030	0.030					52	None	66	None
				0.28	1.40	0.030	0.030					56	None	71	None
		X52		0.28	1.40	0.030	0.030					60	None	75	None
				0.28	1.40	0.030	0.030					65	None	77	None
		X56		0.28	1.40	0.030	0.030					70	None	82	None
				0.28	1.40	0.030	0.030					70	None	82	None
		X60		0.28	1.40	0.030	0.030					70	None	82	None
				0.28	1.40	0.030	0.030					70	None	82	None
		X65		0.28	1.45	0.030	0.030					70	None	82	None
				0.28	1.65	0.030	0.030					70	None	82	None
		X70		0.28	1.65	0.030	0.030					70	None	82	None
				0.28	1.65	0.030	0.030					70	None	82	None
API 5L	PSL 2	B		0.24	1.20	0.025	0.015					35	65	60	110
				0.24	1.30	0.025	0.015					42	72	60	110
		X42		0.24	1.30	0.025	0.015					42	72	60	110
				0.24	1.40	0.025	0.015					46	76	63	110
		X52		0.24	1.40	0.025	0.015					52	77	66	110
				0.24	1.40	0.025	0.015					56	79	71	110
		X56		0.24	1.40	0.025	0.015					60	82	75	110
				0.24	1.40	0.025	0.015					65	87	77	110
		X60		0.24	1.40	0.025	0.015					70	90	82	110
				0.24	1.40	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 %.
- C) Unless otherwise specified by the purchaser, for each reduction of 0.1%, below the specified carbon maximum, an increase of 0.06% manganese above the specified maximum will be permitted up to a maximum of 1.65%.

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

**Marking:** Required Markings on Each Length (Each Joint, Each Piece). On Tags attached to each 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, 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 PEREN10204 - 3.1 IN ENGLISH LANGUAGE

**Warranty:** 12 MONTHS FROM DATE OF COMMISSIONING OR 18 MONTHS FROM SHIPMENT DATE

SEAMLESS PIPE & LINE PIPE SIZES (NPS / O.D)												
NPS OD	W.T	GRADES										WEIGHT (PE) Lb/FT
		B	C	X42	X46	X52	X56	X60	X65	X70	X80	
1-1/2" 1.900	0.145	STD - 40										2.72
	0.200	XS - 80										3.63
	0.281	160										4.86
NPS 2 2.375	0.154	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40			3.63
	0.218	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80			3.66
	0.344	160	160	160	160	160	160	160	160			7.47
NPS 2-1/2 2.875	0.203	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40			5.80
	0.276	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80			7.67
	0.375	160	160	160	160	160	160	160	160			10.02
NPS 3 3.500	0.216	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40			7.58
	0.300	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80			10.26
	0.438	160	160	160	160	160	160	160	160			14.34
NPS 3-1/2 4.000	0.226	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40			9.12
	0.318	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80			12.52
	0.636	XXS	XXS	XXS	XXS	XXS	XXS	XXS	XXS			22.87
NPS 4 4.500	0.237	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	10.80
	0.250											11.36
	0.281											12.67
	0.312											13.97
	0.337	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	15.00
	0.438	120	120	120	120	120	120	120	120	120	120	19.02
NPS 5 5.563	0.531	160	160	160	160	160	160	160	160	160	160	22.53
	0.258	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	14.63
	0.281											15.87
	0.312											17.51
	0.344											19.19
	0.375	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	20.80
NPS 6 6.625	0.500	120	120	120	120	120	120	120	120	120	120	27.06
	0.625	160	160	160	160	160	160	160	160	160	160	32.99
	0.250											17.04
	0.280	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	18.99
	0.312											21.06
	0.344											23.10
NPS 8 8.625	0.375											25.05
	0.432	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	28.60
	0.500											32.74
	0.562	120	120	120	120	120	120	120	120	120	120	36.43
	0.625											40.09
	0.719	160	160	160	160	160	160	160	160	160	160	45.39
NPS 10 10.750	0.250	20	20	20	20	20	20	20	20	20	20	22.38
	0.277	30	30	30	30	30	30	30	30	30	30	24.72
	0.312											27.73
	0.322	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	28.58
	0.406	60	60	60	60	60	60	60	60	60	60	35.67
	0.500	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	XS - 80	43.43
NPS 10 10.750	0.562											48.44
	0.594	100	100	100	100	100	100	100	100	100	100	51.00
	0.625											53.45
	0.719	120	120	120	120	120	120	120	120	120	120	60.77
	0.812	140	140	140	140	140	140	140	140	140	140	67.82
	0.875	XXS	XXS	XXS	XXS	XXS	XXS	XXS	XXS	XXS	XXS	72.49
NPS 10 10.750	0.906	160	160	160	160	160	160	160	160	160	160	74.76
	0.365	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	STD - 40	40.52
	0.438	XS - 60	XS - 60	XS - 60	XS - 60	XS - 60	XS - 60	XS - 60	XS - 60	XS - 60	XS - 60	48.28
	0.500											54.79
	0.562	80	80	80	80	80	80	80	80	80	80	61.21
	0.594											64.49
NPS 10 10.750	0.625	100	100	100	100	100	100	100	100	100	100	67.65
	0.719											77.10
	0.812	120	120	120	120	120	120	120	120	120	120	86.26
	0.844	XS - 140	XS - 140	XS - 140	XS - 140	XS - 140	XS - 140	XS - 140	XS - 140	XS - 140	XS - 140	89.38
	1.000	160	160	160	160	160	160	160	160	160	160	104.23
	1.125											115.75





SEAMLESS PIPE & LINE PIPE SIZES (NPS / O.D)												
NPS OD	W.T	GRADES										WEIGHT (PE) Lb/FT
		B	C	X42	X46	X52	X56	X60	X65	X70	X80	
NPS 12 12.750	0.219											29.34
	0.250					20						33.41
	0.281											37.46
	0.312											41.48
	0.330					30						43.81
	0.344											45.62
	0.375					STD						49.61
	0.406					40						53.57
	0.438											57.65
	0.500					XS						65.48
	0.562					60						73.22
	0.625											81.01
	0.688					80						88.71
	0.750											96.21
	0.844					100						107.42
NPS 14 OD = 14.00	1.000					XXS - 120						125.61
	1.125					140						139.81
	1.312					160						160.42
	0.375					STD - 30						54.62
	0.406											59.00
	0.438					40						63.50
	0.469											67.84
	0.500					XS						72.16
	0.562											80.73
	0.594					60						85.13
	0.625											89.36
	0.688											97.91
	0.750					80						106.23
	0.812											114.48
	0.938					100						130.98
	1.094					120						150.93
NPS 16 OD=16	1.250					140						170.37
	1.406					160						189.29
	0.375					STD - 30						62.64
	0.406											67.68
	0.438											72.86
	0.469											77.87
	0.500					XS - 40						82.85
	0.562											92.75
	0.625											102.72
	0.656					60						107.60
	0.688											112.62
	0.750											122.27
	0.812											131.84
	0.844					80						136.74
	1.031					100						164.98
	1.219					120						192.61
NPS 18 OD = 18	1.250											197.10
	1.438					140						223.85
	1.594					160						245.48
	0.375					STD						70.65
	0.406											76.36
	0.438					30						82.23
	0.469											87.89
	0.500					XS						93.54
	0.562					40						104.76
	0.625											116.09
	0.688											127.32
	0.750					60						138.30
	0.812											149.20
	0.938					80						171.08
	1.000											181.73
	1.156					100						208.15
	1.375					120						244.37
	1.562					140						274.48

SEAMLESS PIPE & LINE PIPE SIZES (NPS / O.D)											
NPS OD	W.T	GRADES									
		B	C	X42	X46	X52	X56	X60	X65	X70	X80
NPS 20 OD = 20	0.375					20					
	0.406										
	0.438										
	0.469										
	0.500					XS - 30					
	0.562										
	0.594					40					
	0.625										
	0.688										
	0.750										
	0.812					60					
	1.031					80					
	1.250										
	1.281					100					
	1.375										
	1.500										
OD = 26	0.375					STD					
	0.500					XS - 20					
	0.375					20					
	0.406										
	0.438										
	0.469										
	0.500					30 / XS					
	0.562										
	0.625										
	0.688										
	0.750										
	0.812										
	0.875					60					
	1.000										
	1.125					80					
	1.219										
	1.250										
NPS 24 OD = 24	0.375					20 / STD					
	0.406										
	0.438										
	0.469										
	0.500					XS					
	0.562					30					
	0.625										
	0.688					40					
	0.750										
	0.812										
	0.875										
	0.938										
	0.969					60					
	1.000										
	1.031										
	1.062										
	1.219					80					
NPS 26 OD = 26	0.375					STD					
	0.406										
	0.438										
	0.469										
	0.500					20 / XS					
	0.562										
	0.625										
	0.688										
	0.750										
	0.812										
	1.062										





*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"*

