



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**

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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



All tubing supplied under MORRIS VAVES® brand, meet or exceed the API requirements and testing procedures (see API Spec. 5CT).

For all plications and for critical wells, always delivery the MTC including the manufacturer's test results.

For tubing used in sour wells (wells with H2S content greater than 0.05 psi partial pressure), specific sour service requirements are reviewed and applied in the manufacturing process.

### **Tubing connectors and joints.**

The API external-upset-end (EUE) tubing connection is widely used because it is a good, serviceable connection in most wells.

The EUE joint has a designed joint strength in tension and pressure strength greater than that of the pipe body and, therefore, is considered a 100% joint efficient connection. For proper lubrication and sealing, the joint requires a good thread compound as outlined in API RP 5A3. [2] To improve the seal performance of API EUE tubing in high-pressure service, a grooved coupling, which accepts nonmetallic seal rings, is sometimes used in the coupling (see API Spec. 5CT SR 13).

To provide more clearance, API special clearance EUE couplings are available. API EUE joints come in OD sizes of 1.050 to 4.500 in.

API non-upset (NUE) tubing is used much less than EUE tubing. The cost of NUE is only slightly less than EUE, and the joint strength is substantially less. The coupling joint diameter of NUE is less than EUE, which offers some advantages when clearance is small.

API NUE joints are available in sizes of 1.050 to 4.500 in.

API integral-joint tubing is available in OD sizes of 1.315 to 2.063 in. API integral-joint tubing has a 10-round form with a joint strength that is less than the body minimum yield, which restricts its use. The small OD of integral-joint tubing permits its use inside larger tubing strings or in wells as unloading or vent strings.

The couplings should meet all the minimum requirements outlined in API Spec. 5CT. [1] API Spec. 5B3 and API RP 5B14 cover threading, gauging, and thread inspection.

Several proprietary (non-API) connections are available. These joints are useful when greater leak resistance or more clearance is needed than that provided by the standard API joints.











LABELS					WEIGHT (Lb. / Ft)			TYPE END FINISH							
		2	2		WALL										
1	NU	EU	Ш	O.D (in)	THICKNESS (in)	NU	EU	IJ	H40	J55	L80	N80 TYPE1, Q	C90d	T95d	P110
1	T&C	T&C	נו		(111)	T&C	T&C	.,	1140			11111,Q			1110
	2	3	4	5	9	6	7	8	10	11	12	13	14	15	16
2.2/0	4.00	-	-	2.375	0.167	4.00	-	-	PN	PN	PN	PN	PN	PN	-
	4.60	4.70	-	2.375	0.190	4.60	4.70	-	PNU	PNU	PNU	PNU	PNU	PNU	PNU
2-3/8	5.80	5.95	-	2.375	0.254	5.80	5.95	-	-	-	PNU	PNU	PNU	PNU	PNU
	6.60		-	2.375	0.295	6.60		-	-	-	Р	-	Р	P PU	-
	7.35	7.45	-	2.375	0.336	7.35	7.45	-	-	-	PU	-	PU PNU	PNU	- PNU
	6.40	6.50	-	2.875	0.217	6.40	6.50	-	PNU	PNU	PNU	PNU	PNU	PNU	PNU
	7.80	7.90	-	2.875	0.276	7.80	7.90	-	-	-	PNU	PNU	PNU	PNU	PNU
2-7/8	8.60	8.70	-	2.875	0.308	8.60	8.70	-	-	-	PNU	PNU	PNU	PU	PINU
	9.35 10.50	9.45	-	2.875 2.875	0.340 0.392	9.35 10.50	9.45 -	-	-	-	PU P	-	P	P	
	11.50	-	-	2.875	0.392	11.50	-	-	-	-	P	-	P	P	_
	7.70	_	_	3.500	0.440	7.70	-	_	PN	PN	PN	PN	PN	PN	_
	9.20	9.30	_	3.500	0.210	9.20	9.30	_	PNU	PNU	PNU	PNU	PNU	PNU	PNU
	10.20	J.50 -	_	3.500	0.234	10.20	J.50 -	_	PN	PN	PN	PN	PN	PN	-
3-1/2	12.70	12.95	_	3.500	0.375	12.70	12.95	_			PNU	PNU	PNU	PNU	PNU
3 1/2	14.30	-	_	3.500	0.430	14.30	-	_	_	_	Р	-	Р	Р	-
	15.50	-	-	3.500	0.476	15.50	-	-	-	-	P	-	Р	Р	-
	17.00	-	-	3.500	0.530	17.00	-	-	-	-	Р	-	Р	Р	-
	9.50	-	-	4.000	0.226	9.50	-	-	PN	PN	PN	PN	PN	PN	-
	10.70	11.00	-	4.000	0.262	10.70	-	-	PU	PU	PU	PU	PU	PU	-
4	13.20	-	-	4.000	0.330	13.20	-	-	-	-	Р	-	Р	Р	-
	16.10	-	-	4.000	0.415	16.10	-	-	-	-	Р	-	Р	Р	-
	18.90	-	-	4.000	0.500	18.90	-	-	-	-	Р	-	P	P	-
	22.20	-	-	4.000	0.610	22.20	-	-	-	-	Р	-	Р	Р	-
	12.60	12.75	-	4.500	0.271	12.60	12.75	-	PNU	PNU	PNU	PNU	PNU	PNU	-
	15.20	-	-	4.500	0.337	15.20	-	-	-	-	Р	-	P P	P P	-
4.1/2	17.00	-	-	4.500	0.380	17.00	-	-	-	-	Р	-	P P	P P	-
4-1/2	18.90	-	-	4.500	0.430	18.90	-	-	-	-	Р	-	P	P	_
	21.50	-	-	4.500	0.500	21.50	-	-	-	-	Р	-	P	P	
	23.70	-	-	4.500	0.560	23.70	-	-	-	-	P P	-	P	P	
	26.10	-	-	4.500	0.630	26.10	-	-	-	-	Ρ	-	r	Г	-

This International Standard is applicable to the following connections in accordance with API Spec 5B: \* Short round thread casing. MARKED SYMBOL (STC)

- \* Long round thread casing. MARKED SYMBOL (LC)
- \* Buttress thread casing. MARKED SYMBOL (BC)
- \* Extreme-line casing. MARKED SYMBOL (XC)
- \* Non-upset tubing. MARKED SYMBOL (NU)
- \* External upset tubing. MARKED SYMBOL (EU)
- \* Integral joint tubing. MARKED SYMBOL (IJ)
- 1. Nominal linear masses, threads and coupling (col 2,3,4) are shown for information only.
- 2. The densities of martensitic chromium Steels (L80 types 9Cr and 13Cr) are di erent from carton steels.
- 3. The masses shown are therefore not accurate for martensitic chromium steels. A mass correction factor of 0,989 may be used.
- 4. Non-upset tubing is available with regular couplings or special bevel couplings. External- upset tubing is available with regular, special-level, or special-clearance couplings.
- 5. Grade C90 and T95 tubing shall be furnished in sizes, masses and wall thickness as listed above, or as shown on the purchase agreement.

	API 5CT TUBING Chemical and Mechanical Properties																
			Chemical Requirements (Composition %)										Mechanical Requirements				
STD	GTD Grade		С	Mn	Р	S	Si	Cr	Ni	Cu	Мо	V	Yield strength Min (Ksi)	Tensile strength Min (Ksi)	Elongation Min (%)	Hard ness	
	J55K55	Min	0.34	1.25	≤0.020	≤0.015	0.20	≤0.15	≤0.20	≤0.20	-	-	75-55	> 55			
	(37Mn5)	Max	0.39	1.50	≤0.020	≤0.015	0.35	≤0.15	≤0.20	≤0.20	-	-	<80	> 55			
	N80	Min	0.34	1.45	≤0.020	≤0.015	0.20	≤0.15	-	-	-	0.11	110 - 80	>100			
<u> </u>	(36 Mn2V	) Max	0.38	1.70	≤0.020	≤0.015	0.35	≤0.15	-	-	-	0.16	110 - 80	>100			
5CT	L80	Min	0.15	0.25	≤0.020	≤0.010	≤1.00	12.0	≤0.20	≤0.20	-	-	80 - 95	> 95			
ద	(13Cr)	Max	0.22	1.00	≤0.020	≤0.010	≤1.00	14.0	≤0.20	≤0.20	-	-	80 - 95	> 95			
⋖	P110	Min	0.26	0.40	≤0.020	≤0.010	0.17	0.80	≤0.20	≤0.20	0.15	≤0.08	110-140	> 125			
	(30CrMo)	Max	0.35	0.70	≤0.020	≤0.010	0.37	1.10	≤0.20	≤0.20	0.25	-	110-140	> 125			
	H40		0.23	0.30	0.030	0.030	0.45	2.8	0.4	-	-	-	-	-			

Mill Test Certificates: Issued in accordance with API Specification 5CT Eighth Edition. Additional Third Party Inspection can also be performed on request.

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

Packing: By Bundles Marking: Per API 5CT









### Casing. -

Is the major structural component of a well. Casing is needed to:

- \* Maintain borehole stability
- \* Prevent contamination of water sands
- \* Isolate water from producing formations
- \* Control well pressures during drilling, production, and workover operations

### Casing provides locations for the installation of:

- \* Blowout preventers
- \* Wellhead equipment
- \* Production packers
- \* Production tubing

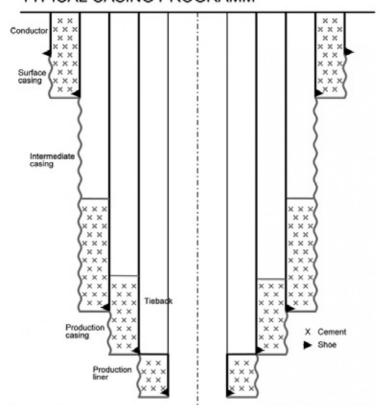
The cost of casing is a major part of the overall well cost, so selection of casing size, grade, connectors, and setting depth is a primary engineering and economic consideration.

#### **Casing strings**

There are six basic types of casing strings:

- \* Conductor Casing
- \* Surface Casing
- \* Intermediate Casing
- \* Production Casing
- \* Liner
- \* Liner tieback casing

#### TYPICAL CASING PROGRAMM





API 5CT CASING SPECIFICATIONS.														
	WEIGHT	0.0	WALL				TYPE EI		ISH					
SIZE	Lb/ft	0. D	THICKNESS	GRADE										
	LD/IC	(ln)	(ln)	H40	J-55 K-55	M-65	L-80 C-95	N-80	C-90 T-95	P110	Q-125			
-1/2″	9.50 10.50 11.60 13.50 15.10	4.500	0.205 0.224 0.250 0.290 0.337	PS - - -	PS PSB PSLB – –	PS PSB PLB PLB	– PLB PLB –	– PLB PLB –	– PLB PLB –	– PLB PLB PLB	- - - - PLB			
5	11.50 13.00 15.00 18.00 21.40 23.20 24.10	5.000	0.220 0.253 0.296 0.362 0.437 0.478 0.500	- - - -	PS PSLB PSLB - - -	PS PSLB PLB PLB PLB -	- PLB PLB PLB -	- PLB PLB PLB -	- PLBE PLBE PLB PLB PLB	- PLB PLB PLB -	- - PLB PLB PLB PLB			
5-1/2	14.00 15.50 17.00 20.00 23.00 26.80 29.70 32.60 35.30 38.00 40.50 43.10	5.500	0.244 0.275 0.304 0.361 0.415 0.500 0.562 0.625 0.687 0.750 0.812 0.875	PS	PS PSLB PSLB	PS PSLB PLB PLB - - - - -	- - PLB PLB - - - - - -	- PLB PLB PLB - - - - -	- PLBE PLBE PLBE P P P P	- PLB PLB PLB - - - -	- - - PLB - - - - -			
6 5/8	20.00 24.00 28.00 32.00	6.625	0.288 0.352 0.417 0.475	PS - - -	PSLB PSLB - -	PSLB PLB PLB -	- PLB PLB PLB	PLB PLB PLB	– PLBE PLBE PLBE	PLB PLB PLB	- - - PLB			
7	20.00 23.00 26.00 29.00 32.00 35.00 38.00 42.70 46.40 50.10 53.60 57.10	7.000	0.272 0.317 0.362 0.408 0.453 0.498 0.540 0.625 0.687 0.750 0.812 0.875	PS	- PS PSLB PSLB - - - - - - - - -	PS PLB PLB PLB	- PLB PLB PLB PLB PLB PLB P P P	- PLB PLB PLB PLB PLB - - -	PLBE PLBE PLBE PLBE PLBE PLBE	- - PLB PLB PLB PLB - - -	- - - - - PLB PLB - - -			
F	P= PLAIN E	ENDS	S = SHORT ROU	ND THI	READ	L = LON	IG RND THE	READ	B = BUT	TERS TH	READ			
5 5 5 6 5/8 7	11.60 13.50 15.10 11.50 13.00 15.00 18.00 21.40 23.20 24.10 14.00 15.50 17.00 20.00 23.00 26.80 29.70 32.60 35.30 38.00 40.50 43.10 20.00 24.00 28.00 32.00 17.00 20.00 23.00 26.00 29.00 32.00 35.00	5.000 5.500 6.625	0.250 0.290 0.337 0.220 0.253 0.296 0.362 0.437 0.478 0.500 0.244 0.275 0.304 0.361 0.415 0.500 0.562 0.625 0.687 0.750 0.812 0.875 0.288 0.352 0.417 0.475 0.231 0.272 0.317 0.362 0.408 0.453 0.498 0.540 0.625 0.687 0.750 0.812 0.875		PSLB	PLB PLB PS PSLB PLB PLB PLB PLB PLB PLB PLB PLB PLB P	PLB	PLB PLB PLB PLB PLB PLB PLB PLB PLB	PLB  PLBE PLBE PLB PLBE PLBE PLBE PLBE P	PLB	RI			

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- 5. Grade C90 and T95 tubing shall be furnished in sizes, masses and wall thickness as listed above, or as shown on the purchase agreement.



API 5CT CASING SPECIFICATIONS.													
	WEIGHT	O, D	WALL	TYPE END FINISH									
SIZE	Lb/ft		THICKNESS	1140	1.551/.55	14.65		RADE	C 00 T 05	D110	0.105		
		(ln)	(ln)		J-55 K-55	M-65	L-80 C-95	N-80	C-90 T-95	P110	Q-125		
	24.00	7.625	0.300	PS	 DCLD		 DLD						
	26.40 29.70	7.625 7.625	0.328 0.375		PSLB 	PSLB PLB	PLB PLB	PLB PLB	PLB PLB	PLB PLB			
	33.70	7.625	0.430			PLB	PLB	PLB	PLB	PLB			
7 5/8"	39.00	7.625	0.500				PLB	PLB	PLB	PLB	PLB		
7 3/6	42.80	7.625	0.562				PLB	PLB	PLB	PLB	PLB		
	45.30	7.625	0.595				PLB	PLB	PLB	PLB	PLB		
	47.10	7.625	0.625				PLB	PLB	PLB	PLB	PLB		
	51.20 55.30	7.625 7.750	0.687 196.85						P P				
7 3/4"	46.10	8.625	0.595				 P	 P	P	 P	P		
7 37 1	24.00	8.625	0.264		PS	PS							
	28.00	8.625	0.304	PS		PS							
	32.00	8.625	0.352	PS	PSLB	PSLB							
8 5/8"	36.00	8.625	0.400		PSLB	PSLB	PLB	PLB	PLB	PSLB			
	40.00	8.625	0.450			PLB	PLB	PLB	PLB	PLB			
	44.00 49.00	8.625 9.625	0.500 0.557			PLB 	PLB PLB	PLB PLB	PLB PLB	PLB PLB	 PLB		
	32.30	9.625	0.312	PS			PLD 	PLD 	PLD 	PLD 	PLD 		
	36.00	9.625	0.352	PS	PSLB	PSLB							
	40.00	9.625	0.395		PSLB	PSLB	PLB	PLB	PLB				
	43.50	9.625	0.435			PLB	PLB	PLB	PLB	PLB			
	47.00	9.625	0.472			PLB	PLB	PLB	PLB	PLB	PLB		
9 5/8	53.50	9.625	0.545				PLB	PLB	PLB PLB	PLB	PLB		
	58.40 59.40	9.625 9.625	0.595 0.609				PLB 	PLB 	PLB	PLB 	PLB 		
	64.90	9.625	0.672						P				
	70.30	9.625	0.300	H-40	J-55 K-55	M-65	L-80C-95	N-80	C-90T-95	P-110	Q-125		
	75.60	9.625	0.328	PS									
	32.75	10.75	0.279	PS									
	40.50 45.50	10.75 10.75	0.350 0.400	PS 	PSB PSB	PSB PSB							
	51.00	10.75	0.450		PSB	PSB	PSB	PSB	PSB	PSB			
	55.50	10.75	0.495			PSB	PSB	PSB	PSB	PSB			
10 3/4"	60.70	10.75	0.545						PSB	PSB	PSB		
	65.70	10.75	0.595						PSB	PSB	PSB		
	73.20	10.75	0.672						Р				
	79.20	10.75	0.734	 DC					Р				
	42.00 47.00	11.75 11.75	0.333 0.375	PS 	PSB	PSB							
11 2 / 4"	E4.00	11.75	0.435		PSB	PSB							
11 3/4"	60.00	11.75	0.489		PSB	PSB	PSB	PSB	PSB	PSB	PSB		
	65.00	11.75	0.534				Р	Р	Р	Р	Р		
	71.00	11.75	0.582				Р	Р	Р	Р	Р		
	48.00	13.375	0.330	PS	 DCD								
13 3/8"	54.50 61.00	13.375 13.375	0.380 0.430		PSB PSB	PSB PSB							
13 3/0	68.00	13.375	0.480		PSB	PSB	PSB	PSB	PSB	PSB			
	72.00	13.375	0.514				PSB	PSB	PSB	PSB	PSB		
	65.00	16.000	0.375	PS	-	-	-	-	-	-	-		
16	75.00	16.000	0.438	-	PSB	PSB	-	-	-	-	-		
	84.00		0.495	-	PSB	PSB	-	-	-	-	-		
18-5/8"	109.00	40.55=	0.656	-	Р	-	Р	Р	Р	Р	Р		
	87.50 94.00	18.625	0.435	PS	PSB	PSB	-	-	-	-	-		
20	106.50	20.00	0.438 0.500	PSL -	PSLB PSLB	PSLB PSLB	-	_	_	_	_		
	133.00	20.00	0.635	_	PSLB	-	_	_	_	_	_		
F	P= PLAIN E	NDS	S = SHORT ROL	IND TH		L = LON	NG RND THE	READ	B = BUT	TERS TH	READ		

This International Standard is applicable to the following connections in accordance with API Spec 5B:

- \* Short round thread casing. MARKED SYMBOL (STC)
- \* Long round thread casing. MARKED SYMBOL (LTC)
- \* Buttress thread casing. MARKED SYMBOL (BTC)
- \* Extreme-line casing. MARKED SYMBOL (XC)





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"