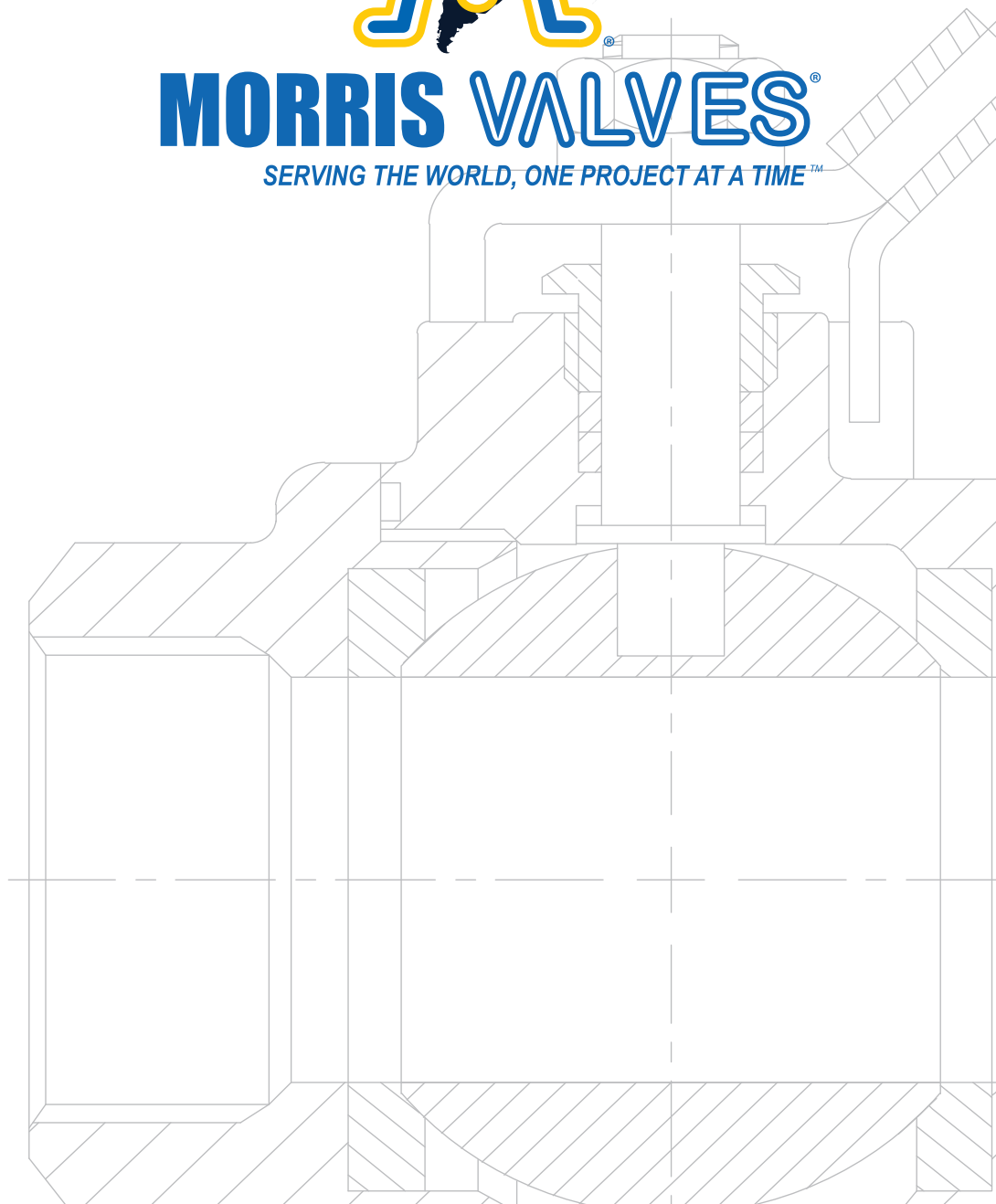




MORRIS VALVES®

SERVING THE WORLD, ONE PROJECT AT A TIME™



API 5DP DRILL PIPE & API 7-1 HW DRILL PIPE

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

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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

API 5DP Drill Pipe for Oil & Gas

Drill pipes are steel tubular fitted with threaded ends called Tool Joints, which are commonly used in tension in the top part of the drill string to “pump fluid and transmit torque to the bit”. The DRILL STRING is the drill pipe with the tool joints attached.

The drill pipe connects the rig surface equipment with the bottom hole assembly and the bit, both to pump drilling fluid to the bit and to be able to raise, lower and rotate the bottom hole assembly and bit.

High Strength Drill Pipe – Because of deeper drilling and higher stress levels, grades of drill pipe stronger than Grade E-75 have been developed. Grades and minimum tensile yield strengths are:

Drill Pipe Grade Minimum Tensile Yield Strength

X-95 95,000

G-105 105,000

S-135 135,000

V-150* 150,000

*V-150 is not a standard API grade but is listed as the next higher grade above S-135.

Markings on Tool Joints for Identification of Drill String Components.-

MONTH AND YEAR WELDED

_____Month Year_____

DRILL PIPE GRADE CODE

Grade Symbol

E-75 E

X-95 X

G-105 G

S-135 S

V150 V

SAMPLE MARKINGS AT BASE OF PIN

1	2	3	4	5
ZZ	6	70	N	E

1-Company Symbol

ZZ Company (Fictional for example only. Various tool joint manufacturers’ symbols are illustrated in a chart in Section 1, Page 8.)

2-Month Welded

6-June

3-Year Welded

70-1970

4-Pipe Manufacturer

N-United States Steel Company

5-Drill Pipe Grade: E-Grade E-75 Drill Pipe



DRILL PIPE SPECIFICATIONS										
DRILL PIPE (TUBE)						TOOL JOINT				
SIZE		UPSET ENDS TYPE	GRADE	W.T (in)	NOMINAL WEIGHT LB/Ft	CONNECTION TYPE			PIN TONG1 SPACE (in)	BOX TONG1 SPACE (in)
O. D (in)	I. D (in)						O. D (in)	I. D (in)		
2-3/8	1.815	EU	E-75	0.280	6.65	NC26	3-3/8	1-3/4	9	10
	1.815		X-95				3-3/8		9	10
	1.815		G-105				3-3/8		9	10
	1.815		S-135				3-5/8		9	10
2-7/8	2.151	EU	E-75	0.362	10.40	NC31	4-1/8	2-1/8	9	11
	2.151		X-95				4-1/8	2	9	11
	2.151		G-105				4-1/8	2	9	11
	2.151		S-135				4-3/8	1-5/8	9	11
3-1/2	2.764	EU	E-75	0.368	13.30	NC38	4-3/4	2-11/16	10	12-1/2
	2.764		X-95				5	2-9/16	10	12-1/2
	2.764		G-105				5	2-7/16	10	12-1/2
	2.764		S-135				5	2-1/8	10	12-1/2
	2.602	EU	E-75	0.449	15.50	NC38	5	2-9/16	10	12-1/2
	2.602		X-95			NC38	5	2-7/16	10	12-1/2
	2.602		G-105			NC38	5	2-1/8	10	12-1/2
	2.602		S-135			NC40	5-1/2	2-1/4	9	12
4	3.240	IU	E-75	0.330	14.00	NC40	5-1/4	2-13/16	9	12
	3.240		X-95				5-1/4	2-11/16	9	12
	3.240		G-105				5-1/2	2-7/16	9	12
	3.240		S-135				5-1/2	2-7/16	9	12
	3.240	EU	E-75	0.330	14.00	NC46	6	3-1/4	9	12
	3.240		X-95				6	3-1/4	9	12
	3.240		G-105				6	3-1/4	9	12
	3.240		S-135				6	3	9	12
	3.240	IU	E-75	0.380	15.70	NC40	5-1/4	2-11/16	9	12
	3.240		X-95				5-1/4	2-7/16	9	12
	3.240		G-105				5-1/4	2-7/16	9	12
	3.240		S-135				5-1/2	2	9	12
	3.240	EU	E-75	0.380	15.70	NC46	6	3-1/4	9	12
	3.240		X-95				6	3-1/4	9	12
	3.240		G-105				6	3	9	12
	3.240		S-135				6	3	9	12
4-1/2	3.826	IEU	E-75	0.337	16.60	NC46	6-1/4	3	9	12
	3.826		X-95				6-1/4	3-1/4	9	12
	3.826		G-105				6-1/4	3	9	12
	3.826		S-135				6-1/4	2-3/4	9	12
	3.826	EU	E-75	0.337	16.60	NC50	6-5/8	3-3/4	9	12
	3.826		X-95				6-5/8	3-3/4	9	12
	3.826		G-105				6-5/8	3-3/4	9	12
	3.826		S-135				6-5/8	3-1/2	9	12
	3.640	IEU	E-75	0.430	20.00	NC46	6-1/4	3	9	12
	3.640		X-95				6-1/4	2-3/4	9	12
	3.640		G-105				6-1/4	2-1/2	9	12
	3.640		S-135				6-1/4	2-1/4	9	12
	3.640	EU	E-75	0.430	20.00	NC50	6-5/8	3-1/2	9	12
	3.640		X-95				6-5/8	3-1/2	9	12
	3.640		G-105				6-5/8	3	9	12
	3.640		S-135				6-5/8	3-1/2	9	12

DRILL PIPE SPECIFICATIONS										
DRILL PIPE (TUBE)						TOOL JOINT				
SIZE		UPSET ENDS TYPE	GRADE	W.T (In)	NOMINAL WEIGHT LB/Ft	CONNECTION TYPE				
O. D (In)	I. D (In)						O. D (In)	I.D (In)	PIN TONG1 SPACE (In)	BOX TONG1 SPACE (In)
5	4.276	IEU	E-75	0.362	19.50	NC50	6-5/8	3-3/4	9	12
	4.276	IEU	X-95			NC50	6-5/8	3-1/2	9	12
	4.276	IEU	G-105			NC50	6-5/8	3-1/4	9	12
	4.276	IEU	S-135			NC50	6-5/8	2-3/4	9	12
	4.276	IEU	E-75			5-1/2 FH	7	3-3/4	10	12
	4.276	IEU	X-95			5-1/2 FH	7	3-3/4	10	12
	4.276	IEU	G-105			5-1/2 FH	7	3-3/4	10	12
	4.276	IEU	S-135			5-1/2 FH	7-1/4	3-1/2	10	12
	4.000	IEU	E-75	0.500	25.60	NC50	6-5/8	3-1/2	9	12
	4.000	IEU	X-95			NC50	6-5/8	3	9	12
	4.000	IEU	G-105			NC50	6-5/8	2-3/4	9	12
	4.000	IEU	S-135			NC50	6-5/8	2-3/4	9	12
	4.000	IEU	E-75			5-1/2 FH	7	3-1/2	10	12
	4.000	IEU	X-95			5-1/2 FH	7	3-1/2	10	12
	4.000	IEU	G-105			5-1/2 FH	7-1/4	3-1/2	10	12
	4.000	IEU	S-135			5-1/2 FH	7-1/4	3-1/4	10	12
5-1/2	4.778	IEU	E-75	0.361	21.90	5-1/2 FH	7	4	10	12
	4.778	IEU	X-95			5-1/2 FH	7	3-3/4	10	12
	4.778	IEU	G-105			5-1/2 FH	7-1/4	3-1/2	10	12
	4.778	IEU	S-135			5-1/2 FH	7-1/2	3	10	12
	4.670	IEU	E-75	0.415	24.70	5-1/2 FH	7	4	10	12
	4.670	IEU	X-95			5-1/2 FH	7-1/4	3-1/2	10	12
	4.670	IEU	G-105			5-1/2 FH	7-1/4	3-1/2	10	12
	4.670	IEU	S-135			5-1/2 FH	7-1/2	3	10	12
6-5/8	5.965	IEU	E-75	0.362	25.20	6-5/8 FH	8	5	10	13
	5.965	IEU	X-95	0.362		6-5/8 FH	8	5	10	13
	5.965	IEU	G-105	0.362		6-5/8 FH	8-1/4	4-3/4	10	13
	5.965	IEU	S-135	0.362		6-5/8 FH	8-1/2	4-1/4	10	13
	5.901	IEU	E-75	0.362	27.70	6-5/8 FH	8	5	10	13
	5.901	IEU	X-95	0.362		6-5/8 FH	8-1/4	4-3/4	10	13
	5.901	IEU	G-105	0.362		6-5/8 FH	8-1/4	4-3/4	10	13
	5.901	IEU	S-135	0.362		6-5/8 FH	8-1/2	4-1/4	10	13

1=2" longer than standard

Grades and Lengths of Steel Drill Pipe

Drill pipe is furnished in the following API length ranges:

Range 118 ft. to 22 ft.

Range 227 ft. to 30 ft.

Range 338 ft. to 45 ft.



MORRIS VALVES
SERVING THE WORLD, ONE PROJECT AT A TIME

Dimensions and Performance Properties. PIPE DATA												
SIZE		UPSET ENDS TYPE	GRADE	W.T (In)	NOMINAL WEIGHT LB/Ft	Torsional Yield Strength Lb-Ft	Tensile Yield Strength Lb	Internal Pressure Psi	Collapse Pressure Psi	Pipe Body Section Area sq in.	Pipe Body Section cu in.	Pipe Body Polar Section Modulus cu in.
O. D (In)	I. D (In)											
2-3/8	1.815	EU	E-75	0.280	6.65	6,300	138,200	15,474	15,599	1.843	0.867	1.733
	1.815		X-95	0.280	6.65	7,900	175,000	19,600	19,759			
	1.815		G-105	0.280	6.65	8,800	193,500	21,663	21,839			
	1.815		S-135	0.280	6.65	11,300	248,800	27,853	28,079			
	1.815		Z-140	0.280	6.65	11,700	258,000	28,884	29,119			
	1.815		V-150	0.280	6.65	12,500	276,400	30,947	31,199			
2-7/8	2.151	EU/IU	E-75	0.362	10.40	11,600	214,300	16,526	16,509	1.812	1.121	2.241
	2.151		X-95	0.362	10.40	14,600	271,500	20,933	20,911			
	2.151		G-105	0.362	10.40	16,200	300,100	23,137	23,112			
	2.151		S-135	0.362	10.40	20,800	385,800	29,747	29,716			
	2.151		Z-140	0.362	10.40	15,100	253,700	18,492	17,500			
	2.151		V-150	0.362	10.40	16,200	271,800	19,813	18,398			
3-1/2	2.764	EU/IU	E-75	0.368	13.30	18,600	271,600	13,800	14,113	2.590	1.961	3.923
	2.764		X-95	0.368	13.30	23,500	344,000	17,480	17,877			
	2.764		G-105	0.368	13.30	26,000	380,200	19,320	19,758			
	2.764		S-135	0.368	13.30	33,400	488,800	24,840	25,404			
	2.764		Z-140	0.368	13.30	26,400	362,600	17,780	16,158			
	2.764		V-150	0.368	13.30	28,300	88,500	19,050	16,943			
	2.602	EU	E-75	0.449	15.50	21,100	322,800	16,838	16,774	2.602	4.304	2.923
	2.602		X-95	0.449	15.50	26,700	408,800	21,328	21,247			
	2.602		G-105	0.449	15.50	29,500	451,900	23,573	23,4484			
	2.602		S-135	0.449	15.50	38,000	581,000	30,308	30,194			
	2.602		Z-140	0.449	15.50	34,600	506,900	25,760	26,345			
	2.602		V-150	0.449	15.50	37,100	543,100	27,600	28,226			
4	3.476	IU	E-75	0.262	11.85	19,500	230,800	8,597	8,381	3.077	2.700	5.400
	3.476		X-95	0.262	11.85	24,700	292,300	10,889	9,978			
	3.476		G-105	0.262	11.85	27,300	323,100	12,036	10,708			
	3.476		S-135	0.262	11.85	35,100	415,400	15,474	12,618			
	3.476		Z-140	0.262	11.85	36,400	430,700	16,048	12,894			
	3.476		V-150	0.262	11.85	38,900	461,500	17,194	13,404			
	3.240	EU/IU	E-75	0.330	14.00	23,300	285,400	10,828	11,354	3.805	3.229	6.458
	3.240		X-95	0.330	14.00	29,500	361,500	13,716	14,382			
	3.240		G-105	0.330	14.00	32,600	399,500	15,159	15,896			
	3.240		S-135	0.330	14.00	41,900	513,600	19,491	20,141			
	3.240		Z-140	0.330	14.00	43,500	532,700	20,213	20,742			
	3.240		V-150	0.330	14.00	46,600	570,700	21,656	21,912			
	3.240	EU/IU	E-75	0.380	15.70	25,800	324,100	12,469	12,896	4.322	3.578	7.157
	3.240		X-95	0.380	15.70	32,700	410,500	15,794	16,335			
	3.240		G-105	0.380	15.70	36,100	453,800	17,456	18,055			
	3.240		S-135	0.380	15.70	46,500	583,400	22,444	23,213			
	3.240		Z-140	0.380	15.70	36,400	430,700	23,275	24,073			
	3.240		V-150	0.380	15.70	38,900	461,500	24,938	25,793			
4-1/2	3.826	EU/IU	E-75	0.337	16.60	30,800	330,600	9,829	10,392	4.407	4.271	8.543
	3.826		X-95	0.337	16.60	39,000	418,700	12,450	12,765			
	3.826		G-105	0.337	16.60	43,100	462,800	13,761	13,825			
	3.826		S-135	0.337	16.60	55,500	595,000	17,693	16,773			
	3.826		Z-140	0.337	16.60	57,500	617,000	18,348	17,228			
	3.826		V-150	0.337	16.60	61,600	661,100	19,658	18,103			
	3.240	EU/IU	E-75	0.430	20.00	36,900	412,400	10,232	12,542	5.498	5.116	10.232
	3.240		X-95	0.430	20.00	46,700	522,300	10,232	15,886			
	3.640		G-105	0.430	20.00	51,700	577,300	10,232	17,558			
	3.640		S-135	0.430	20.00	66,400	742,200	10,232	22,575			
	3.640		Z-140	0.430	20.00	68,900	769,700	10,232	23,411			
	3.640		V-150	0.430	20.00	73,800	824,700	10,232	25,083			

Dimensions and Performance Properties. PIPE DATA												
SIZE		UPSET ENDS TYPE	GRADE	W.T (in)	NOMINAL WEIGHT LB/Ft	Torsional Yield Strength Lb-Ft	Tensile Yield Strength Lb	Internal Pressure Psi	Collapse Pressure Psi	Pipe Body Section Area sq in.	Pipe Body Section cu in.	Pipe Body Polar Section Modulus cu in.
O. D (in)	I. D (in)											
5	4.276	IEU	E-75	0.362	19.50	41,200	395,600	9,503	9,962	5.275	5.708	11.415
	4.276		X-95	0.362	19.50	52,100	501,100	12,037	12,026			
	4.276		G-105	0.362	19.50	57,600	553,800	13,304	12,999			
	4.276		S-135	0.362	19.50	74,100	712,100	17,105	15,672			
	4.276		Z-140	0.362	19.50	76,800	738,400	17,738	16,079			
	4.276		V-150	0.362	19.50	82,300	791,200	19,005	16,858			
	4.000	IEU	E-75	0.500	25.60	52,300	530,100	13,125	13,500	7.069	7.245	14.491
	4.000		X-95	0.500	25.60	66,200	671,500	16,625	17,100			
	4.000		G-105	0.500	25.60	73,200	742,200	18,375	18,900			
	4.000		S-135	0.500	25.60	94,100	954,300	23,625	24,300			
	4.000		Z-140	0.500	25.60	97,500	989,600	24,500	25,200			
	4.000		V-150	0.500	25.60	104,500	1,060,300	26,250	27,000			
5-1/2	4.778	IEU	E-75	0.361	21.90	50,700	437,100	8,413	8,615	5.828	7.031	14.062
	4.778		X-95	0.361	21.90	64,200	553,700	10,019	10,912			
	4.778		G-105	0.361	21.90	71,000	612,000	10,753	12,061			
	4.778		S-135	0.361	21.90	91,300	786,800	12,679	15,507			
	4.778		Z-140	0.361	21.90	94,700	816,000	12,957	16,081			
	4.778		V-150	0.361	21.90	101,400	874,200	13,473	17,230			
	4.670	IEU	E-75	0.415	24.70	71,700	629,800	10,464	9,903	6.630	7.844	15.688
	4.670		X-95	0.415	24.70	101,800	895,000	12,933	12,544			
	4.670		G-105	0.415	24.70	79,200	696,100	14,013	13,865			
	4.670		S-135	0.415	24.70	101,800	895,000	17,023	17,826			
	4.670		Z-140	0.415	24.70	105,600	928,100	17,489	18,486			
	4.670		V-150	0.415	24.70	113,100	994,400	18,386	19,807			
5-7/8	5.153	IEU	E-75	0.361	23.40	58,600	469,000	7,453	8,065	6.254	8.125	16.251
	5.153		X-95	0.361	23.40	74,200	594,100	8,775	10,216			
	5.153		G-105	0.361	23.40	82,000	656,600	9,362	11,291			
	5.153		S-135	0.361	23.40	105,500	844,200	10,825	14,517			
	5.153		Z-140	0.361	23.40	109,400	875,500	11,023	15,054			
	5.153		V-150	0.361	23.40	117,200	938,000	11,376	16,130			
	5.045	IEU	E-75	0.415	26.30	65,500	533,900	9,558	9,271	7.119	9.083	18.165
	5.045		X-95	0.415	26.30	83,000	676,300	11,503	11,744			
	5.045		G-105	0.415	26.30	91,700	747,400	12,414	12,980			
	5.045		S-135	0.415	26.30	117,900	961,000	14,892	16,688			
	5.045		Z-140	0.415	26.30	122,300	996,600	15,266	17,306			
	5.045		V-150	0.415	26.30	131,000	1,067,800	15,976	18,543			
6-5/8	5.965	IEU	E-75	0.330	25.20	70,600	489,500	4,788	6,538	6.526	9.786	19.572
	5.965		X-95	0.330	25.20	89,400	620,000	5,321	8,281			
	5.965		G-105	0.330	25.20	98,800	685,200	5,500	9,153			
	5.965		S-135	0.330	25.20	127,000	881,000	6,036	11,768			
	5.965		Z-140	0.330	25.20	131,700	913,700	6,121	12,204			
	5.965		V-150	0.330	25.20	141,200	978,900	6,260	13,075			
	5.901	IEU	E-75	0.362	27.70	76,300	534,200	5,894	7,172	7.123	10.578	21.156
	5.901		X-95	0.362	27.70	96,600	676,700	6,755	9,084			
	5.901		G-105	0.362	27.70	106,800	747,900	7,103	10,040			
	5.901		S-135	0.362	27.70	137,300	961,600	7,813	12,909			
	5.901		Z-140	0.362	27.70	142,400	997,200	7,881	13,387			
	5.901		V-150	0.362	27.70	152,600	1,068,400	7,970	14,343			

OCTG - Heavy Weight Drill Pipe (HWDP)

A Heavy Weight Drill Pipe (HWDP) is a tubular pipe that adds weight or acts as a transitional piece in the drill string, looks like a normal drill pipe except for an upset centered along the tube which helps to prevent excessive buckling. HWDP, As a transitional section of the drill string, it is placed between the drill collar and standard drill pipe to reduce fatigue failures, typically between the stiff and rigid drill collars and the relatively light and flexible drill pipe joints to reduce fatigue failures directly above the bottom hole assembly.

In other applications the HWDP is used as an additional weight to weigh down the drill string. Its wall thickness is up to 3 times that of a similar-sized normal drill pipe..

HWDP is used most commonly in directional drilling because it bends more easily and helps to control torque and fatigue in high-angle operations.

HWDP is manufactured in accordance with API Spec. 7/7-1 guidelines.



HWDP Specifications

Conventional Heavy Weight Drill Pipes come in two configurations: Welded and Integral.

The welded configuration is manufactured by friction welding of extra long tool joints to a thick well tube while the **Integral configuration** is machined from a solid bar of AISI4145H alloy steel.

An additional option is the **Heavyweight Spiral Drill Pipe**, which has spiral grooves cut into the external surface for reduced differential sticking and improved hole-cleaning.

Products are manufactured to API Spec.7/ 7-1 where applicable and can come customized with additional features and proprietary connections of leading manufacturers per your requirements.

Nominal Size (Tube OD)	Tube			Tool Joint (in)		
	ID (in)	Elevator Upset	Center Upset	Connection Type & Size	O. D (in)	I.D (in)
2-7/8	1-1/2	2-15/16	3-5/16	NC 26 (2-3/8 IF)	3-3/8	1-1/2
3-1/2	2-1/16	3-7/8	4	NC 38 (3-1/2 IF)	4-3/4 (4-7/8,5)	2-1/16
3-1/2	2-1/4	3-7/8	4	NC 38 (3-1/2 IF)	4-3/4 (4-7/8,5)	2-1/4
4	2-9/16	4-3/16	4-1/2	NC 40 (4FH)	5-1/4	2-9/16
4	2-1/2	4-3/16	4-1/2	NC 40 (4FH)	5-1/4	2-1/2
4-1/2	2-3/4	4-11/16	5	NC 46 (4 IF)	6-1/4	2-3/4
4-1/2	2-11/16	4-11/16	5	NC 46 (4 IF)	6-1/4	2-3/4
4-1/2	2-13/16	4-11/16	5	NC 46 (4 IF)	6-1/4	2-3/4
5	3	5-1/8	5-1/2	NC 50 (4-1/2 IF)	6-5/8	3
5-1/2	3-1/4	5-11/16	6	5-1/2 FH	7 (7-1/4,7-1/2)	3-1/4
5-1/2	3-3/8	5-11/16	6	5-1/2 FH	7 (7-1/4,7-1/2)	3-3/8
5-1/2	3-7/8	5-11/16	6	5-1/2 FH	7 (7-1/4,7-1/2)	3-3/8
5-1/2	4	5-11/16	6	5-1/2 FH	7 (7-1/4,7-1/2)	4
6-5/8	4	6-15/16	7-1/8	6-5/8 FH	8 (8-1/4,8-1/2)	4
6-5/8	4-1/2	6-15/16	7-1/8	6-5/8 FH	8 (8-1/4,8-1/2)	4-1/2
6-5/8	5	6-15/16	7-1/8	6-5/8 FH	8 (8-1/4,8-1/2)	5

Standard Features

API Bore Back Box Connection
API Stress Relief Grooved Pin
Cold Rolled Thread Roots
Phosphate coated connections

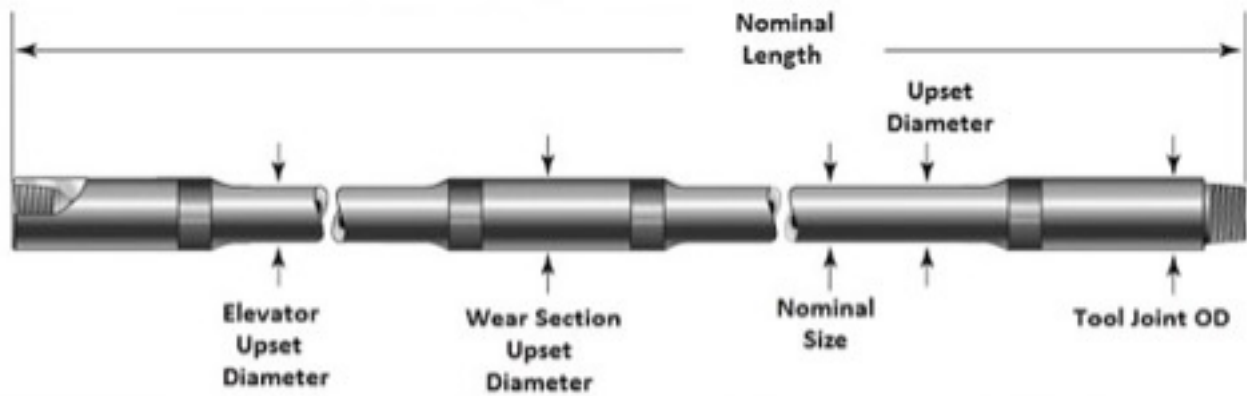
Options

Internal Plastic Coating
Hard band Type especially on box and pin tool joint
Proprietary Connections
Make and Break Test

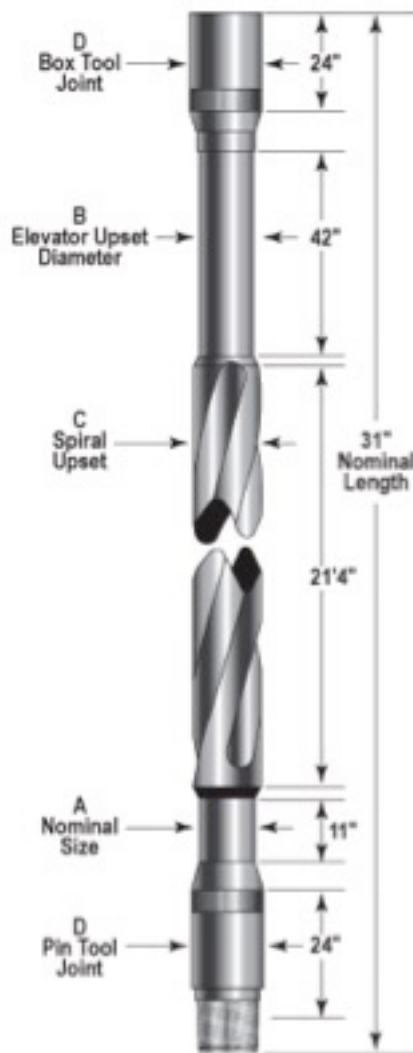
Protection

Mill Test Certificates

Pressed steel thread protectors
Issued in accordance with API Spec 7/7-1 and API RP7G .
Third Party Inspection can be performed on request at buyer's care and expense.
Issued in accordance with API Spec 7/7-1 and API RP7G .



HEAIVY WEIGHT DRILL PIPE



SPIRAL HEAVY WEIGHT DRILL PIPE





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"

