

# VENGEANCE

*Oilfield Products Inc.*

***Swage Nipples,  
Bull Plugs  
&  
Oil Country Fittings  
Catalogue***

**MANUFACTURING SPECIFICATION**

Vengeance Oilfield Products Inc, manufactures swage nipples and bull plugs in accordance with A234, A420, A403 and MSS-SP95, from A106B, A333-6 seamless pipe and A1000 series, low to medium carbon, fine grain, cold drawn bar stock, and heat-treated to these specifications. The chemical and physical properties of the raw material fall within the ranges listed below.

**TRACEABILITY**

All raw material purchased by Vengeance Oilfield Products Inc, is fully traceable to the mill source. A unique traceable code appears on all VOP products made since the institution of this program. As a result, mill test reports are available at any time on products so coded.

**PRESSURE RATINGS**

Due to the wide variation in service conditions, temperature, vibrations, etc., Vengeance Oilfield Products Inc. can make no recommendations as to allowable working pressures of swage nipples and bull plugs. There is a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system based on the applicable code of construction. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.

**MATERIAL CERTIFICATION**

Vengeance Oilfield Products Inc, certifies that the material used to manufacture line pipe sizes of swage nipples and bull plugs has been processed and heat treated to comply with all requirements of ASTM A234, ASTM A420, and ASTM A403, and that the chemical and physical properties of the raw material fall within the ranges listed below.

ASTM SPEC	MARKING SYMBOL	COMPOSITION					MINIMUM		MAX HBn
		C max	Mn	P max	S max	Si min	Tensile	Yield	
A234	WPB	.30	.29 – 1.06	.050	.058	.10	60K – 85K PSI	35K PSI	197
A420	WPL6	.30	.30 – 1.06	.048	.058	.10	60K – 85K PSI	35K PSI	197
A403	WP304/L	.035	2.0 max	.045	.030	1.0 max	70K PSI	25K PSI	
A403	WP316/L	.035	2.0 max	.045	.030	1.0 max	70K PSI	25K PSI	

<p style="text-align: center;"><b>MARKING</b></p> <p>All Vengeance Oilfield Products Inc, fittings are permanently marked as follows:</p> <p><b>Manufacturer’s Symbol</b>                      VOP</p> <p><b>Material Specification</b></p> <p>WPB, WPL6, WP304, WP316 (Line Pipe Sizes) J55, N80, L80, 4140</p> <p><b>Raw Material Code</b></p> <p>Each part is permanently stamped with a unique traceable code identifying the raw material type, details of purchase and steel mill test report.</p> <p><b>Heat Treatment</b></p> <p>When marked WPB, WPL6, an acceptable heat treatment is understood to have been performed.</p> <p><b>Label Information</b></p> <p>Size and Wall Thickness.</p> <p><b>Compliance Information</b></p> <p>Full Compliance marked with “SP95”</p>	<p style="text-align: center;"><b>THREADING</b></p> <p>Line pipe, tubing and casing are in conformance with API 5B</p> <hr/> <p style="text-align: center;"><b>COATINGS</b></p> <p>Zinc Electroplate – ASTM A164 Type RS Phosphate – Beveled Ends</p> <hr/> <p style="text-align: center;"><b>WELD BEVELS</b></p> <p>Weld Bevels are machined as per ASME B16.9</p>
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# Vengeance Oilfield Products Inc

# Well-Connected

## **Full Traceability**

All VOP swages, bull plugs, tubing and casing nipples, are traceable to the original mill test report. To ensure traceability, all fittings are steel marked as follows:

## **Material Specification**

WPB, WPL6, WP304, WP316 (Line Pipe Only)  
J55, N80, L80, etc.

## **Raw Material Code**

Each is marked with a unique traceable code for identifying raw material type, details of purchase and mill test report.

## **Heat Treatment**

When marked WPB, WPL6, an acceptable heat treatment is understood to have been performed.

All VOP products conform to the following specifications, including ISO 9000 certification.

API 5B –  
*Threading*

API 5CT –  
*End Finishing*

ASME B16.9 –  
*Weld Bevels*

MSS-SP95  
*Swages and Bull Plugs*

ASTM A23  
*Heat Treatment, Raw Materials*

ASTM A164 Type RS –  
*Zinc Electroplate*

CHARPY IMPACT  
*As Required*

NACE – MR-01-75  
*As Required*

DIN/EN –  
*As Required*

# CARBON STEEL

# Swage Nipples

## LINE PIPE SWAGES

- Size range 1/8 NPS / 6 DN – 8 NPS / 200 DN
- Manufactured from A106 Grade B seamless pipe or cold drawn bar which is heat treated in accordance with ASTM A234
- Choice of raw material dependent upon size and reduction.
- Available standard, extra heavy, schedule 160, or double extra heavy
- End finishes available: current API threads, beveled, square cut (for socket-weld), or grooved
- Available concentric and eccentric.

Swage Nipples	Size													
	Pipe		API or O.D.		Reduced to		Length		Standard Weight		Extra Heavy Weight		DbI Ex. & 160 Weight	
	NPS	DN	IN	MM	NPS	DN	IN	MM	LB	KG	LB	KG	LB	KG
	1/4	8	.540	15	1/8	6	2-1/4	57					.25	.11
	3/8	10	.675	15	1/8 1/4	6 8	2-1/2 2-1/2	63 63			.25 .25	.11 .11	.38 .38	.17 .17
	1/2	15	.840	20	1/8 1/4 & 3/8	6 8 & 10	2-3/4 2-3/4	70 70			.33 .33	.15 .15	.50 .50	.23 .23
	3/4	20	1.050	25	1/8 1/4 & 3/8 1/2	6 8 & 10 15	3 3 3	76 76 76			.50 .50 .50	.23 .23 .23	.75 .75 .75	.34 .34 .34
	1	25	1.315	33	1/8 1/4 & 3/8 1/2 & 3/4	6 8 & 10 15 & 20	3-1/2 3-1/2 3-1/2	88 88 88			.66 .66 .66	.30 .30 .30	1.00 1.00 1.00	.45 .45 .45
	1-1/4	32	1.660	42	1/4 & 3/8 1/2 & 3/4 1	8 & 10 15 & 20 25	4 4 4	102 102 102			1.00 1.00 1.00	.45 .45 .45	1.50 1.50 1.50	.68 .68 .68
	1-1/2	40	1.900	48	1/4 & 3/8 1/2 & 3/4 1 1-1/4	8 & 10 15 & 20 25 32	4-1/2 4-1/2 4-1/2 4-1/2	114 114 114 114			1.17 1.17 1.17 1.17	.53 .53 .53 .53	2.00 2.00 2.00 2.00	.91 .91 .91 .91
	2	50	2-3/8	60	1/4 & 3/8 1/2 & 3/4 1 1-1/4 1-1/2	8 & 10 15 & 20 25 32 40	6-1/2 6-1/2 6-1/2 6-1/2 6-1/2	165 165 165 165 165	2.00 2.00 2.00	.90 .90 .90	3.00 3.00 2.33 2.33 2.33	1.36 1.36 1.06 1.06 1.06	4.25 4.25 4.25 4.25 4.25	1.93 1.93 1.93 1.93 1.93
	2-1/2	65	2-7/8	73	1/2 & 3/4 1 1-1/4 1-1/2 2	15 & 20 25 32 40 50	7 7 7 7 7	178 178 178 178 178	3.00 3.00 3.00 3.00	1.36 1.36 1.36 1.36	3.50 3.50 3.50 3.50 3.50	1.60 1.60 1.60 1.60 1.60	8.00 8.00 8.00 8.00 8.00	3.64 3.64 3.64 3.64 3.64
	3	80	3-1/2	88	1/2 & 3/4 1 1-1/4 1-1/2 2 & 2-1/2	15 & 20 25 32 40 50 & 65	8 8 8 8 8	203 203 203 203 203	4.50 4.50 4.50 4.50	2.00 2.00 2.00	6.00 6.00 6.00 6.00	2.73 2.73 2.73 2.73	11.00 11.00 11.00 11.00	5.00 5.00 5.00 5.00
	3-1/2	90	4	100	1/2 thru 1-1/2 2 thru 3	15 thru 40 50 thru 80	8 8	203 203	5.50 5.50	2.50 2.50	7.50 7.50	3.40 3.40	13.50 13.50	6.14 6.14
	4	100	4-1/2	114	1/2 & 3/4 1 1-1/4 & 1-1/2 2 2-1/2 3 & 3-1/2	15 & 20 25 32 & 40 50 65 80 & 90	9 9 9 9 9 9	229 229 229 229 229 229	7.50 7.50 7.50 7.50 7.50	3.40 3.40 3.40 3.40 3.40	10.00 10.00 10.00 10.00 10.00	4.50 4.50 4.50 4.50 4.50	18.00 18.00 18.00 18.00 18.00	8.20 8.20 8.20 8.20 8.20
	5	125	5-9/16	140	1 thru 1-1/2 2 & 2-1/2 3 & 3-1/2 4	25 thru 40 50 & 65 80 & 90 100	11 11 11 11	279 279 279 279	11.50 11.50 11.50 11.50	5.23 5.23 5.23	17.00 17.00 17.00 17.00	7.73 7.73 7.73	33.00 33.00 33.00	15.00 15.00 15.00
	6	150	6-5/8	168	1 thru 1-1/2 2 & 2-1/2 3 & 3-1/2 4 5	25 thru 40 50 & 65 80 & 90 100 125	12 12 12 12 12	305 305 305 305 305	17.00 17.00 17.00 17.00 17.00	7.73 7.73 7.73 7.73	25.00 25.00 25.00 25.00 25.00	11.40 11.40 11.40 11.40	46.00 46.00 46.00 46.00 46.00	21.00 21.00 21.00 21.00
	8	200	8-5/8	219	2 thru 3 4 & 5 6	50 thru 80 100 & 125 150	13 13 13	330 330 330	29.00 29.00 29.00	13.20 13.20 13.20	44.00 44.00 44.00	20.00 20.00 20.00	78.00 78.00 78.00	36.00 36.00 36.00

All sizes on this page have been processed in a manner strictly conforming to the requirements of ASTM A234 from material fully meeting all requirements of that specification. The correct marking for swage nipple to denote conformance with this specification is "WPB". All sizes 2 NPS / 50 DN and smaller will be made from hex or round bar stock. Most sizes 2-1/2 NPS / 65 DN and larger will be made from pipe, and where pipe is not a practical raw material, round bar stock will be used. No sacrifice of properties will result from such practice.

# CARBON STEEL

## Bull Plugs

### LINE PIPE BULL PLUGS

- Nominal Pipe Size range 1/8 NPS/6 DN – 8 NPS/200 DN
- Manufactured from A106B seamless pipe or cold drawn bar which is heat treated in accordance with ASTM A234
- Choice of raw material dependent upon size and reduction.
- Available standard, extra heavy, schedule 160, or double extra heavy or solid
- End finishes available: current API threads, beveled, square cut (for socket-weld), or grooved
- All bull plugs can be tapped.

Bull Plugs	Size						Standard Weight		Extra Heavy Weight		Solid Weight		Dbl Ex. & 160 Weight	
	Pipe		API or O.D.		Length		LB	KG	LB	KG	LB	KG	LB	KG
	NPS	DN	IN	MM	IN	MM								
	1/8	6	.405	10	2	50			.10	.05	.20	.01	.40	.20
	1/4	8	.540	15	2	50			.11	.05	.20	.01	.40	.20
	3/8	10	.675	15	2-1/4	57			.14	.06	.33	.15	.28	.13
	1/2	15	.840	20	2-1/2	63			.33	.15	.50	.23	.50	.23
	3/4	20	1.050	25	2-3/4	70			.50	.23	.80	.36	.75	.34
	1	25	1.315	33	3	76			.66	.30	1.38	.63	1.00	.45
	1-1/4	32	1.660	42	3-1/4	83			1.00	.45	2.25	1.00	1.50	.70
	1-1/2	40	1.900	48	3-1/2	89			1.17	.53	3.00	1.40	2.00	.90
	2	50	2-3/8	60	4	102	2.25	1.0	2.50	1.14	5.00	2.25	3.50	1.60
	2-1/2	65	2-7/8	73	5	127	3.00	1.40	3.50	1.59			8.00	3.60
	3	80	3-1/2	88	6	152	4.50	2.00	6.00	2.73			11.00	5.00
	3-1/2	90	4	100	6-1/2	165	5.50	2.50	7.50	3.41			13.50	6.00
	4	100	4-1/2	114	7	178	7.50	3.40	10.00	4.55			18.00	8.00
	5	125	5-9/16	140	8-1/2	216	12.50	5.70	17.00	7.73			33.00	15.00
	6	150	6-5/8	168	10	254	17.00	7.70	25.00	11.36			46.00	21.00
	8	200	8-5/8	219	11	279	29.00	13.00	44.00	20.00			78.00	35.00

# OIL COUNTRY FITTINGS

## Current API Thread Standards

Current API Thread Standards	Size		O.D.		Pipe	Tubing & Casing
	NPS	DN	IN	MM		
	¾	20	1.050	25	14	
	¾ EUE	20	1.050	25		10 Rd.
	1	25	1.315	33	11-1/2	10 Rd.
	1 EUE	25	1.315	33		10 Rd.
	1-1/4	32	1.660	42	11-1/2	10 Rd.
	1-1/4 EUE	32	1.660	42		10 Rd.
	1-1/2	40	1.900	48	11-1/2	10 Rd.
	1-1/2 EUE	40	1.900	48		10 Rd.
	2	50	2-3/8	60	11-1/2	10 Rd.
	2 EUE	50	2-3/8	60		8 Rd.
	2-1/2	65	2-7/8	73	8V	10 Rd.
	2-1/2 EUE	65	2-7/8	73		8 Rd.
	3	80	3-1/2	88	8V	10 Rd.
	3 EUE	80	3-1/2	88		8 Rd.
	3-1/2	90	4	100	8V	8 Rd.
	3-1/2 EUE	90	4	100	8V	8 Rd.
	4	100	4-1/2	114	8V	8 Rd.
	4 EUE	100	4-1/2	114		8 Rd.
			5	125		8 Rd.
			5-1/2	140		8 Rd.
	5	125	5-9/16	140	8V	
			6	150		8 Rd.
	6	150	6-5/8	168	8V	8 Rd.
			7	180		8 Rd.
			7-5/8	195		8 Rd.
	8	200	8-5/8	219	8V	8 Rd.
			9-5/8	245		8 Rd.
	10	250	10-3/4	275	8V	8 Rd.
			11-3/4	300		8 Rd.
	12	300	12-3/4	325	8V	
			13-3/8	340		8 Rd.
			14	355	8V	
			16	405	8V	8 Rd.
			18	455	8V	
			20	510	8V	8 Rd.

# OIL COUNTRY FITTINGS

## Tubing Swages Casing Swages

### TUBING SWAGES

- Nominal sizes 1 – 3-1/2 / 25 – 90 DN upset and non-upset ends tubing swages available with any combination of current API threads (8 round, 10 round, 11-1/2 V, 8 V, etc.) and are stock items in J-55, K-55, N-80, and L-80
- Wall thicknesses available are standard through double extra heavy
- For different grades of material (stainless, brass, etc.) and different threads, consult factory
- Thread types are color-coded for easy identification.

Large end upset reduced to regular or upset	Size		API or O.D.		Reduced to		Length		Standard Weight		Extra Heavy Weight		DbI Extra Heavy Weight	
	NPS	DN	IN	MM	NPS	DN	IN	MM	LB	KG	LB	KG	LB	KG
	1	25	1.315	33	3/4	20	3-1/2	89	.66	.3	.66	.3		
	1-1/4	32	1.660	42	3/4 - 1	20 – 25	4	102	1.00	.45	1.00	.45		
	1-1/2	40	1.900	48	3/4 - 1-1/4	20 – 32	4-1/2	114	1.25	.6	1.25	.6		
	2	50	2-3/8	60	1/4 – 1/2 – 3/4	8 – 15 – 20	8	203	2.50	1.1	4.00	1.8	6.00	2.7
					1 – 1-1/4 – 1-1/2	25 – 32 – 40	8	203	2.50	1.1	4.00	1.8	6.00	2.7
					2-1/16 O.D.	52	8	203	2.5	1.1	4.00	1.8	6.00	2.7
	2-1/2	65	2-7/8	73	1 – 1-1/4 – 1-1/2	25 – 32 – 40	8	203	5.00	2.2	6.00	2.7	10.00	4.5
					2	50	8	203	6.00	2.7	6.00	2.7	10.00	4.5
	3	80	3-1/2	88	1 – 1-1/4 – 1-1/2	25 – 32 – 40	8	203	7.50	3.4	9.00	4.0	14.00	6.4
					2 – 2-1/2	50 – 65	8	203	7.50	3.4	9.00	4.0	14.00	6.4
	4	100	4-1/2	114	1 – 1-1/4 – 1-1/2	25 – 32 – 40	9	229	11.00	5.0	14.00	6.4	23.00	10.5
					2 – 2-1/2	50 – 65	9	229	11.00	5.0	14.00	6.4	23.00	10.5
				3 – 3-1/2	80 – 90	9	229	11.00	5.0	14.00	6.4	23.00	10.5	
Large end non-upset reduced to upset	Size		API or O.D.		Reduced to		Length		Standard Weight		Extra Heavy Weight		DbI Extra Heavy Weight	
	NPS	DN	IN	MM	NPS	DN	IN	MM	LB	KG	LB	KG	LB	KG
	1	25	1.315	33	3/4	20	3-1/2	89	.66	.3	.66	.3		
	1-1/4	32	1.660	42	3/4 - 1	20 – 25	4	102	1.00	.45	1.00	.45		
	1-1/2	40	1.900	48	3/4 - 1-1/4	20 – 32	4-1/2	114	1.25	.6	1.25	.6		
	2	50	2-3/8	60	3/4	20	6.5	165	2.50	1.1	3.50	1.6	5.00	2.3
					1 – 1-1/4 – 1-1/2	25 – 32 – 40	6.5	165	2.50	1.1	3.50	1.6	5.00	2.3
	2-1/2	65	2-7/8	73	1 – 1-1/4 – 1-1/2	25 – 32 – 40	7	178	4.00	1.8	6.00	2.7	9.00	4.0
					2	50	7	178	4.00	1.8	6.00	2.7	9.00	4.0
	3	80	3-1/2	88	1 – 1-1/4 – 1-1/2	25 – 32 – 40	8	203	6.00	2.7	9.00	4.0	12.00	5.4
					2 – 2-1/2	50 – 65	8	203	6.00	2.7	9.00	4.0	12.00	5.4
	4	100	4-1/2	114	1 – 1-1/4 – 1-1/2	25 – 32 – 40	9	229	8.00	2.7	12.00	5.4	20.00	9.0
				2 – 2-1/2	50 – 65	9	229	8.00	2.7	12.00	5.4	20.00	9.0	
				3 – 3-1/2	80 – 90	9	229	8.00	2.7	12.00	5.4	20.00	9.0	
		5-1/2	140	2 – 3	50 – 80	11	279	12.50	5.7	17.00	7.7	33.00	15.0	
		7	175	2 – 3	50 – 80	12	305	17.00	7.7	25.00	11.4	50.00	23.0	

Swage Nipples non-upset on large end are made from J-55, K-55, N-80 or the most appropriate material available.

Swage Nipples upset on large end are made from J-55 unless otherwise specified.

# OIL COUNTRY FITTINGS

## Tubing Swages

## Casing Swages

Swage Nipples Oil Country tubing & casing non EUE ends	Size													
	Pipe		O.D.		Reduced to		Length		Standard Weight		Extra Heavy Weight		Dbl Ex. & 160 Weight	
	NPS	DN	IN	MM	NPS	DN	IN	MM	LB	KG	LB	KG	LB	KG
	1	25	1.315	33	1/4 - 3/4	8 - 20	3-1/2	88	.66	.3	.66	.3	1.00	.45
	1-1/4	32	1.660	42	1/4 - 1/2 3/4 & 1	8 - 15 20 & 25	4	102	1.00	.45	1.00	.45	1.50	.68
	1-1/2	40	1.900	48	1/4 - 3/4 1 & 1-1/4	8 - 20 25 & 32	4-1/2	114	1.17	.53	1.00	.45	2.00	.9
	2	50	2-3/8	60	1/4 - 3/4 1 - 2 OD	8 & 20 25 - 50 OD	6-1/2	165	2.50	1.12	3.00	1.4	4.25	1.9
	2-1/2	65	2-7/8	73	1/4 - 3/4 1 - 1-1/2 2 & 2-1/16	8 - 20 25 - 40 50 & 52	7	178	3.00	1.4	3.50	1.6	8.00	3.6
	3	80	3-1/2	88	1 - 1-1/2 2 & 2-1/2	25 - 40 50 & 65	8	203	4.50	2.0	6.00	2.7	11.00	5
	4	100	4-1/2	114	1 - 1-1/2 2 & 4 OD	25 - 40 50 & 100 OD	9	229	7.00	3.2	10.00	4.5	18.00	8
			5	130	1 - 1-1/2 2 & 4-1/2 OD	25 - 40 50 - 114 OD	10	254	9.50	4.3	15.00	6.8	24.00	11
			5-1/2	140	1 - 1-1/2 2 & 2-1/2 3 - 5 OD	25 - 40 50 & 65 80 - 125 OD	11	279	12.50	5.7	17.00	7.7	33.00	15
			6-5/8	168	1 - 1-1/2 2 & 2-1/2 3 - 4 OD 4 - 6 OD	25 - 40 50 & 65 80 - 100 OD 100 - 150 OD	12	305	17.00	7.7	25.00	11.4	46.00	21
			7	180	1 - 1-1/2 2 & 2-1/2 3 - 5 OD 5-1/2 OD & 6 OD	25 - 40 50 & 65 80 - 125 OD 140 OD & 150 OD	12	305	17.00	7.7	25.00	11.4	46.00	21
			7-5/8	195	2 - 3 4 OD - 6 OD 6-5/8 OD & 7 OD	50 - 80 100 OD & 150 OD 168 OD & 178 OD	13	330	24.00	11.0	32.00	14.5	46.00	21
			8-5/8	219	2 - 3 4 - 6 OD 6-5/8 OD & 7-5/8 OD	50 - 80 100 & 150 OD 168 OD & 194 OD	13	330	29.00	13.0	44.00	20.0	46.00	21
			9-5/8	245	2 - 3 4 - 6 OD 6-5/8 OD & 8-5/8 OD	50 - 80 100 & 150 OD 168 OD & 194 OD	14	356	38.00	17.3	48.00	22.0	46.00	21
			10-3/4	275	2 - 3 4 - 6 OD 6-5/8 OD - 7-5/8 OD 8-5/8 OD & 9-5/8 OD	50 - 80 100 & 150 OD 168 OD - 194 OD 219 OD & 245 OD	15	381	48.00	22.0	68.00	31.0	46.00	21

- All swage nipples on this page are made from J-55, K-55, N-80 or the most appropriate material available
- Casing threads (8 Rd.) on one end with any thread or finish (beveled) on the other end
- Also includes casing sizes where no thread is specified



# CARBON STEEL

## Bull Plugs

### TUBING & CASING BULL PLUGS

Nominal sizes 1 – 3-1/2 / 25 – 90 DN upset and non-upset ends tubing bull plugs available with any combination of current API threads (8 round, 10 round, 11-1/2 V, 8 V, etc.) and are stock items in J-55, K-55, N-80, and L-80

- 4-1/2" / 114 mm O.D. – 13-3/8" / 340 mm O.D. casing bull plugs available with all current API threads or beveled for welding
- Casing bull plugs available in standard, extra heavy or double extra heavy, and are manufactured from J-55, K-55, N-80 or L-80.

Tubing	Size				Length		Standard Weight		Extra Heavy Weight		Dbl Ex. & 160 Weight	
	Pipe		API or O.D.		IN	MM	LB	KG	LB	KG	LB	KG
	NPS	DN	IN	MM								
Bull Plugs	3/4 EUE	20			3	76	1.50	.68	.50	.23		
	1	25	1.315	35	3	76	1.50	.68	.66	.3		
	1 EUE	25			3	76	1.50	.68				
	1-1/4	32	1.660	40	3-1/4	83	1.50	.68	1.00	.45		
	1-1/4 EUE	32			3-1/4	83	1.50	.68				
	1-1/2	40	1.900	50	3-1/2	89	1.50	.68	1.06	.48		
	1-1/2 EUE	40			3-1/2	89	2.00	.9	2.25	1.0		
	2	50	2-3/8	60	4	102	2.00	.9	3.00	1.4	4.25	1.9
	2 EUE	50			5	127	3.50	1.6	4.00	1.8	9.00	4.0
	2-1/2	65	2-7/8	75	5	127	3.00	1.40	3.50	1.6	8.00	3.6
	2-1/2 EUE	65			5-1/2	140	4.25	1.9	6.00	2.7	14.00	6.4
	3	80	3-1/2	90	6	153	4.50	1.9	5.00	2.3	11.00	5.0
	3 EUE	80			6-1/2	165	10.00	4.5	15.00	7.0	25.00	11.4
	4											
4 EUE												
Casing	API or O.D.		Standard Weight		Standard Weight		Extra Heavy Weight		Dbl Ex. & 160 Weight			
	IN	MM	IN	MM	LB	KG	LB	KG	LB	KG		
Bull Plugs	4-1/2	113	7	178	7.50	3.4	10.00	4.5	18.00	8.2		
	5	127	8	203	9.50	4.3	15.00	6.8	24.00	11.0		
	5-1/2	140	8-1/2	216	12.50	5.7	17.00	7.7	33.00	15.0		
	6-5/8	168	10	254	17.00	7.7	25.00	11.4	46.00	21.0		
	7	175	10	254	17.00	7.7	25.00	11.4	50.00	23.0		
	7-5/8	194	11	279	24.00	11.0	32.00	14.5	53.00	24.0		
	8-5/8	219	11	279	29.00	13.0	44.00	20.0	78.00	35.0		

Bell Nipples	O.D. Size		Weight	
	NPS	DN	LB	KG
	4-1/2	113	4.5	2
	5-1/2	140	9	4
	7	175	13.2	6
	8-5/8	219	15	7
	9-5/8	245		

STD bull plugs listed above are made from J-55 (or better). Such items in XH and XXH are made from J-55, K-55, N-80 or the most appropriate material available.

# OIL COUNTRY FITTINGS

## Tubing Nipples

### TUBING SWAGES

- Nominal sizes 1 – 3-1/2 / 25 – 90 DN upset and non-upset ends
- Lengths are 4" – 18"
- Tubing nipples available with any combination of current API threads (8 round, 10 round, 11-1/2 V, 8 V, etc.) and are stock items in J-55, K-55, N-80, and L-80
- Wall thicknesses available are standard through double extra heavy
- For different grades of material (stainless, brass, etc.) and different threads, consult factory

Tubing nipples standard weight	Size		End Connection
	NPS	DN	
18" / 457 mm and shorter upset and non-upset	1	25	Upset API Threads: One or Both Ends
	1	25	Non-upset (Regular)
	1-1/4	32	Upset API Threads: One or Both Ends
	1-1/4	32	Non-upset (Regular)
	1-1/2	40	Upset API Threads: One or Both Ends
	1-1/2	40	Non-upset (Regular)
	2	50	Upset API Threads: One or Both Ends
	2	50	Non-upset (Regular)
	2-1/2	65	Upset API Threads: One or Both Ends
	2-1/2	65	Non-upset (Regular)
	3	80	Upset API Threads: One or Both Ends
	3	80	Non-upset (Regular)
	4	100	Upset API Threads: One or Both Ends
	4	100	Non-upset (Regular)
Tubing nipples extra heavy weight	Size		End Connection
18" / 457 mm and shorter upset and non-upset	NPS	DN	
	1	25	Upset API Threads: One or Both Ends
	1	25	Non-upset (Regular)
	1-1/4	32	Upset API Threads: One or Both Ends
	1-1/4	32	Non-upset (Regular)
	1-1/2	40	Upset API Threads: One or Both Ends
	1-1/2	40	Non-upset (Regular)
	2	50	Upset API Threads: One or Both Ends
	2	50	Non-upset (Regular)
	2-1/2	65	Upset API Threads: One or Both Ends
	2-1/2	65	Non-upset (Regular)
	3	80	Upset API Threads: One or Both Ends
	3	80	Non-upset (Regular)
	4	100	Upset API Threads: One or Both Ends
4	100	Non-upset (Regular)	

# CARBON STEEL

# Casing Nipples

Oil Country casing nipples	Size O.D.		Weight		Steel Grade
	NPS	DN	LB/FT	KG/M	
	4-1/2	114	10.50 11.60	15.70 17.36	K K-N-P
	5	125	11.50 13.00 15.00 18.00	17.36 19.47 22.44 26.93	K K K-N-P N-P
	5-1/2	140	14.00 15.50 17.00 20.00	20.98 23.20 25.44 29.93	K K K-N-P N-P
	6-5/8	168	20.00 24.00 28.00	29.93 35.94 41.91	K K-N-P N-P
	7	175	20.00 23.00 26.00 29.00	29.93 34.42 38.91 43.40	K K-N K-N-P N-P
	7-5/8	194	26.40 29.70	39.50 44.45	K-N N-P
	8-5/8	219	24.00 32.00 36.00 44.00 49.00	35.94 47.88 53.89 65.87 73.36	K K K-N-P N-P N-P
	9-5/8	245	36.00 40.00 43.50 47.00	53.89 59.86 65.11 70.36	K K-N N-P N-P
	10-3/4	273	40.50 45.50 55.50	60.62 68.11 83.06	K K N-P
	11-3/4	298	60.00	89.83	K
	13-3/8	340	54.50 61.00 68.00 72.00	81.58 91.31 101.77 107.78	K K K K
	16	400	75.00 84.00	112.27 125.73	K K

# OIL COUNTRY FITTINGS

## Tubing Couplings

## Casing Couplings

API tubing couplings	Tubing O.D.		Weight per 100		Length of coupling	
	NPS	DN	LB	KG	IN	MM
	1.315 NUE					
	1.660 NUE					
	1.900 NUE		123	56	3-3/4	96
	2-3/8 NUE		282	128	4-1/4	108
	2-7/8 NUE		515	234	5-1/8	130
	3-1/2 NUE		817	371	5-5/8	143
	1.900 EUE		185	84	3-7/8	99
	2-3/8 EUE		342	155	4-7/8	124
	2-7/8 EUE		527	239	5-1/4	133
	3-1/2 EUE		902	409	5-3/4	146
	4-1/2 EUE		1331	604	6-1/4	159

API casing couplings short thread	Casing O.D.		Weight per 100		Length of coupling	
	NPS	DN	LB	KG	IN	MM
	4-1/2	114	805	366	6-1/4	159
	5	125	1018	463	6-1/2	165
	5-1/2	140	1144	520	6-3/4	171
	6-5/8	168	1997	908	7-1/4	184
	7	175	1834	834	7-1/4	184
	7-5/8	194	2693	1224	7-1/2	191
	8-5/8	219	3558	1617	7-3/4	197
	9-5/8	245	3951	1796	7-3/4	197
	10-3/4	273	4553	2070	8	203
	11-3/4	298			8	203
	13-3/8	340	5623	2556	8	203
	16	400	7898	3590	9	229
	20	500	9500	4318	9	229

API casing couplings long thread	Casing O.D.		Weight per 100		Length of coupling	
	NPS	DN	LB	KG	IN	MM
	4-1/2	114	907	413	7	178
	5	125	1256	571	7-3/4	197
	5-1/2	140	1403	638	8	203
	6-5/8	168	1829	832	8-3/4	222
	7	175	2367	1076	9	229
	7-5/8	194	3423	1556	9-1/4	235
	8-5/8	219	4748	2158	10	254
	9-5/8	245	5577	2535	10-1/2	267
	10-3/4	273	6202	2819	10-1/2	267
	13-3/8	340	7663	3483	10-1/2	267