

Carbon Steel

Swage Nipples

Concentric	Size						Length		Standard		XS/XH		XXS/XXH & Sch. 160	
Swage Nipples	Pipe		API or O.D.		Reduced to Size		Longui		Weight		Weight		Weight	
	NPS	DN	in	mm	NPS	DN	in	mm	lbs	kg	lbs	kg	lbs	k
					1/4 and 3/8	8 and 10	4	102	_	_	1.00	0.45	1.5	0.
	11/4	32	1.660	42	½ and ¾	15 and 20	4	102	_		1.00	0.45	1.5	0.
					1	25	4	102	_	_	1.00	0.45	1.5	0
		40	1.900	48	1/4 and 3/8	8 and 10	41/2	114	_		1.2	0.53	2.0	0
	11/2				½ and ¾	15 and 20	41/2	114	_		1.2	0.53	2.0	0
	1/2	,,,		,,,	1	25	41/2	114	_		1.2	0.53	2.0	0
300					11/4	32	41/2	114	_		1.2	0.53	2.0	0
786		50	23/8	60	1/4 and 3/8	8 and 10	6½	165	_		3.0	1.4	4.3	
					½ and ¾	15 and 20	6½	165			3.0	1.4	4.3	
《基本》	2				1	25	6½	165	2.0	0.91	2.3	1.1	4.3	
10000000000000000000000000000000000000					11/4	32	6½	165	2.0	0.91	2.3	1.1	4.3	
1000年1000					1½	40	6½	165	2.0	0.91	2.3	1.1	4.3	
			2½ 3½		½ and ¾	15 and 20	7	178	_		3.5	1.6	8.0	
1814 271 14E	21/2	65 80		73 89	1	25	7	178	3.0	1.4	3.5	1.6	8.0	
1					11/4	32	7	178	3.0	1.4	3.5	1.6	8.0	
SMITH					1½	40	7	178	3.0	1.4	3.5	1.6	8.0	
2 X 1 STO TBE					2	50	7	178	3.0	1.4	3.5	1.6	8.0	,
					½ and ¾	15 and 20	8	203			6.0	2.7	11	
					1	25	8	203	4.5	2.0	6.0	2.7	11	
	3				11/4	32	8	203	4.5	2.0	6.0	2.7	11	
					1½	40	8	203	4.5	2.0	6.0	2.7	11	,
	01/	- 00	4	100	2 and 2½	50 and 65	8	203	4.5	2.0	6.0	2.7	11	
	31/2	90	4	100	½ thru 1½	15 thru 40	8	203	5.5	2.5	7.5	3.4	14	- (
	31/2	90	4	100	½ thru 1½	15 thru 40	8	203	5.5	2.5	7.5	3.4	14	(
				114	2 thru 3	50 thru 80	8	203	5.5	2.5	7.5	3.4	14	- (
	4	100			½ and ¾	15 and 20	9	229	_ 7.5	-	10.0	4.5	18	
					1	25	9	229	7.5	3.4	10.0	4.5	18	-
					11/4 and 11/2	32 and 40	9	229	7.5	3.4	10.0	4.5	18	
					2	50	9	229	7.5	3.4	10.0	4.5	18	-
					2½	65	9	229	7.5	3.4	10.0	4.5	18	
		125	5 5%16	140	3 and 3½	80 and 90	9	229	7.5	3.4	10.0	4.5	18	Ó
					1 thru 1½	25 thru 40	11 11	279 279	12 12	5.2 5.2	17 17	7.7 7.7	33	
	5				2 and 2½	50 and 65	11	<u>279</u> 279	12	5.2 5.2	17	7.7	33	
					3 and 3½	80 and 90 100	11	279 279	12	5.2 5.2	17	7.7	33	
					4 1 thru 11/		12				25		46	
					1 thru 1½	25 thru 40		305	17	7.7		11		
	6	150	6 5⁄8	168	2 and 2½ 3 and 3½	50 and 65 80 and 90	<u>12</u> 12	305 305	17 17	<u>7.7</u> 7.7	25 25	<u>11</u> 11	46 46	
					3 and 3½	100	12	305	17	7.7	25	<u> 11</u> 11	46	
					5	125	12		17		25	11	46	
	-	200	85/8	219	2 thru 3	50 thru 80		305		7.7				
	0						13	330	29	13	44	20	78	
	8				4 and 5	100 and 125 150	<u>13</u> 13	<u>330</u> 330	29 29	<u>13</u> 13	44	<u>20</u> 20	78 78	

Note: See page 3 for certification of raw material and marking

PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	



J.B. SMITH PRODUCTS





J.B. Smith oil country tubular fittings, swages and bull plugs add an important dimension to the industry's leading line of flow control products offered by Anvil. J.B. Smith is a respected name and its products are well known for high quality and consistency.

Full Traceability

All J.B. Smith swages, bull plugs, tubing and casing nipples, and chambers are traceable to the original mill test report. To ensure traceability, all fittings are steel stamped as follows:

Material Specification

- Material Grade WPB (ASTM A234 Line Pipe)
- Material Grade J-55, K-55, L-80, N-80 (API 5CT - Oil Country Sizes)

Raw Material Code

Each is stamped with unique JBS material code for traceability to material type, details of purchase and mill test report.

Heat Treatment

Items made to specification grades requiring final heat treatment bear an additional two letter code for heat treatment traceability.

All J.B. Smith products conform to the following applicable specifications:

- API 5B Threading Oil Country size
- API 5CT Raw material, Process, End Finish (Oil Country Sizes)
- **ASME B1.20.1** Threading Line Pipe
- ASME B16.9 Weld Bevels
- MSS SP-95 Swage and Bull Plug
- **ASTM A234 WPB** Raw material, Process, End Finish (Line Pipe High Temp)
- **ASTM A420 WPL6** Raw material, Process, End Finish (Line Pipe Low Temp)
- **ASTM B633 Type III Class III** Zinc Electroplate
- NACE MR-01-75 As Applicable



Swage Nipples, Bull Plugs, Oil Country Fittings, Couplings, Stainless Swages

Manufacturing Specification

J.B. Smith manufactures swage nipples and bull plugs in accordance to the applicable specification, API 5CT, ASTM A234, MSS SP-95. Materials include ASTM A106, GR B seamless pipe, A-1000 low to medium carbon, fine grain bar stock, API grades J-55 through N-80 tubing and casing, processed and heat treated to applicable specification requirements. Fitting chemical and physical properties fall within the ranges listed below.

All fittings are manufactured in the U.S.A.

Traceability

All material purchased by J.B. Smith is fully traceable to the mill source. A unique JBS material code appears on all products made since the institution of this program. As a result, mill test reports are now available at any time on products so coded (See EXTRAS for MTR charges.)

Pressure Ratings

Due to the wide variation in service conditions, temperature, vibrations, etc., J.B. Smith Mfg. can make no recommendations as to allowable working pressure of swage nipples and bull plugs. There are a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.

Material Certification - Carbon Steel

J.B Smith certifies that the material used to manufacture line pipe sizes of swage nipples and bull plugs has be processed to comply with the requirements of ASTM A234 grade WPB and the chemical and physical properties of the fittings fall within the ranges listed below.

Marking

All J.B. Smith fittings are permanently marked as follows:

- Manufacturer's symbol JB\$
- Material Specification or Grade
 WBP (Line Pipe Sizes)
 J-55, K-55, L-80, N-80 (Oil Country Sizes)
- Raw Material Code Each part is die stamped with unique JBS material code for traceability to material type, details of purchase and mill test report.
- Heat Treatment Heat treatments are performed to ASTM A234
 WPB or API 5CT specification grade requirement as applicable. Fittings bear a two letter code provide traceability to final heat treatment.

Threading

Line Pipe, Tubing and Casing threads conform to ASME B1.20.1 B or API 5B as applicable.

Oil Country Industry Thread Color Code

Industry Color Codes as follows:

8R - Red 10R - Yellow 10V - Blue 11½V - Green LP - Silver

Coatings

- Zinc Electroplate ASTM B633 Type III Class III
- Paint (Weld Bevel Ends)

Weld Bevels

Weld bevels are machined per ASME B16.9 specifications.

Chemical and Physical Requirements

	API 5CT MATERIAL												
	Chemical Requirements												
Grp	Gr	C	Mn	Mo	Cr	Ni	Cu	Р	S	Si			
1	J55	_	_	_	_	_	_	0.030 Max	0.030 Max	_			
1	K55	_	_	_				0.030 Max	0.030 Max	_			
1	N80 Type1	_	_	_		_		0.030 Max	0.030 Max	_			
2	L80 Type1	0.43 Max	1.90 Max			0.25 Max	0.35 Max	0.030 Max	0.030 Max	0.45 Max			
	Physical Requirements												
Grp	Gr		ongation load %	Yield Strength ksi		Tensile Strength ksi		Hardness					
1	J55	0.5		55-80		75		_		_			
1	K55	0.5		55-80		95		_		_			
1	N80 Type1	0.5		80-110		100							
2	L80 Type1	0.5		80-110		95		23		241			

Note:

- Fittings made from bar or plate may have 0.35 Max Carbon.
- Fittings made from forgings may have a 0.35 Max Carbon and 0.35 Max Silicon.
- 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%.
- The sum of Copper, Nickel Chromium and Molybdenum shall not exceed 1.00%.
- The sum of Chromium and Molybdenum shall not exceed 0.32%.



Oil Country FittingsCurrent API Thread Standards

	Current API Thr	read Standards			
e	0.	D.	Pipe	Tubing & Casing	
DN	in	mm			
20	1.050	27	14	-	
20	1.050	27	_	10 Rd.	
25	1.315	33	11½	10 Rd.	
25	1.315	33	_	10 Rd.	
32	1.660	42	11½	10 Rd.	
32	1.660	42	_	10 Rd.	
40	1.900	48	11½	10 Rd.	
40	1.900	48	_	10 Rd.	
50	23/8	60	11½	10 Rd.	
50	23/8	60	_	8 Rd.	
65	27/8	73	8V	10 Rd.	
65	27/8	73	_	8 Rd.	
80	3½	89	8V	10 Rd.	
80	3½	89	_	8 Rd.	
90	4	102	8V	8 Rd.	
90	4	102	8V	8 Rd.	
100	4½		8V	8 Rd.	
			_	8 Rd.	
_			_	8 Rd.	
_			_	8 Rd.	
125			8V	_	
_			_	8 Rd.	
150			8V	8 Rd.	
			_	8 Rd.	
			_	8 Rd.	
				8 Rd.	
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				8 Rd.	
	20 20 25 25 32 32 40 40 40 50 50 65 65 80 80 90 90 100 100 100 - 125	DN in 20 1.050 20 1.050 25 1.315 25 1.315 32 1.660 40 1.900 40 1.900 50 2% 50 2% 65 2% 65 2% 80 3½ 80 3½ 90 4 100 4½ 100 4½ 125 5% - 6 150 6% - 7 - 7% 200 8% 250 10¾ - 13% - 13% - 18	DN in mm 20 1.050 27 20 1.050 27 25 1.315 33 25 1.315 33 32 1.660 42 40 1.900 48 40 1.900 48 50 2½ 60 50 2½ 60 65 2½ 73 65 2½ 73 80 3½ 89 80 3½ 89 80 3½ 89 90 4 102 90 4 102 100 4½ 114 100 4½ 114 100 4½ 114 100 4½ 14 125 5½ 140 125 5½ 140 125 5½ 14 0 6% 168 -	Pipe DN	