



Issued on: 24 Jan. 2017



Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	VM 110 HC	6.750 in.	VAM® SLIJ-II

PIPE PROPERT	ES
Nominal OD	7.625 in.
Nominal ID	6.875 in.
Nominal Cross Section Area	8.541 sqin.
Grade Type	High Collapse
Min. Yield Strength	110 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	125 ksi

CONNECTION F	ROPERTIES
Connection Type	Premium integral semi-flush
Connection OD (nom)	7 711 in.
Connection ID (nom)	6.820 in.
Make-up Loss	4.822 in.
Critical Cross Section	5.912 sqin.
Tension Efficiency	69.2 % of pipe
Compression Efficiency	48.5 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORM	ANCES
Tensile Yield Strength	651 klb
Compression Resistance	455 klb
Internal Yield Pressure	9470 psi
Uniaxial Collapse Pressure	7890 psi
Max. Bending Capacity	TDB
Max Bending with Sealability	20 °/100 ft

FIELD TORQUE V	ALUES
Min. Make-up torque	11300 ft.lb
Opti. Make-up torque	12600 ft.lb
Max. Make-up torque	13900 ft.lb

VAM® SLIJ-II is a semi-flush integral premium connection for all casing applications. It combines a near flush design with high performances in tension, compression and gas sealability.

VAM® SLIJ-II has been validated according to the most stringent tests protocols, and has an excellent performance history in the world's most prolific HPHT wells.



Do you need help on this product? - Remember no one knows VAM^6 like VAM

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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com



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TECHNICAL SPECIFICATIONS

These specifications are furnished for general information only and are not intended for design purposes. This information is preliminary and may change subject to a final design by VAM-USA Engineering. This is not a controlled document.

	change s	subject to a final design by VAM-			
DWC/C-IS MS standard		Casing	5.500" O.D.	20.00 lb./ft.	VST P-110EC
VST P-110EC 125,000 135,000		<u>Material</u> Grade Minimum Yield Strength (p Minimum Ultimate Strength	,		
5.500 4.778 0.361 20.00 19.83 5.828		Pipe Dimensions Nominal Pipe Body OD (in Nominal Pipe Body ID (in.) Nominal Wall Thickness (i Nominal Weight (lbs./ft.) Plain End Weight (lbs./ft.) Nominal Pipe Body Area () n.)	Houston, T2 Phone: (7 Fax: (713)	13) 479-3200
729,000 12,090 14,360 13,100		Pipe Body Performance Minimum Pipe Body Yield Minimum Collapse Pressu Minimum Internal Yield Pr Hydrostatic Test Pressure	Strength (lbs.) are (psi.) essure (psi.)		
6.115 4.778 4.653 4.13 5.828 100.0		Connection Dimensions Connection OD (in.) Connection ID (in.) Connection Drift Diameter Make-up Loss (in.) Critical Area (sq. in.) Joint Efficiency (%)			
729,000 26,040 728,000 729,000 12,090 14,360 104.2	(1) (2) (3) (4)	Connection Performanc Joint Strength (lbs.) Reference String Length (API Joint Strength (lbs.) Compression Rating (lbs.) API Collapse Pressure Res API Internal Pressure Res Maximum Uniaxial Bend F	ft.) 1.4 Design) ating (psi.) sistance (psi.)		
16,600 19,100 21,600	(5) (5) (6)	Approximated Field End Minimum Final Torque (ft. Maximum Final Torque (ft Connection Yield Torque	-lbs.) lbs.) (ftlbs.)		
		um pipe body yield strength multipl s the joint strength divided by both			

(2) Reference String Length is the joint strength divided by both the weight in air and the design factor.

(3) API Joint Strength is for reference only. It is calculated from Formulas 42 and 43 in the API Bulletin 5C3.

(4) API Internal Pressure Resistance is calculated from Formulas 31, 32, and 35 in the API Bulletin 5C3.

(5) Torque values are approximated and may be affected by field conditions.

(6) Connection yield torque is not to be exceeded.

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades v obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advi to obtain current connection specifications and verify pipe mechanical properties for each application.

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FLU:	SHMAX-III		Date	1-Oct-1	
Connecti	on Data Shee	et [
Aetal One Corp			Rev.	N-0	
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Pin critic		1	low oritical or		
· Pin chuc	alarea		Box critical are	ed	
Pipe Body	Imperia	al	<u>S.I.</u>		
Grade	P110		P110		
Pipe OD (D)	7 5/8	in	193.68	mm	
Weight	29.7	Ib/ft	44.25	kg/m	
Actual weight	29.0	Ib/ft	43.26 9.53	kg/m	
Wall thickness (t) Pipe ID (d)	0.375	in	174.63	mm	
Pipe body cross section	8.537	in ²	5,508	mm ²	
Drift Dia.	6.750	in	171.45	mm	
Connection					
Box OD (W)	7.625	in	193.68	mm	
PIN ID	6.875	in	174.63	mm	
Pin critical area	4.420	in ²	2,852	mm ²	
Box critical area	4.424	in ²	2,854	mm ²	
Joint load efficiency	60	% in	77.22	mm	
Make up loss Thread taper	3.040	/16 (3/4 i			
Number of threads		5 thread			
Homber of threads	1				
Connection Performance					
Tensile Yield load	563.4	kips	2,506	KN	
M.I.Y.P.	7,574	psi	52.2 36.9	MPa MPa	
Collapse strength	5,350	psi	36.9	IVIFA	
Note M.I.Y.P. = Minimum Inter	rnal Vield Press	ure of the	connection		
	fial field field		oornioonon		
Torque Recommended					
Min.	8,700	ft-lb	11,700	N-m	
Opti.	9,700	ft-lb	13,100	N-m	
Max.	10,700	ft-lb	14,500	N-m N-m	
Operational Max.	23,600	ft-lb	32,000 gh torque app		

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