



**Performance Datasheet**  
**Heavy Weight Drill Pipe**  
**- Integral -**

Size: **4" OD x 2-1/2" ID**  
 Tool joint: **5" OD x 2-1/2" ID**  
 Connection: **VAM Express VX39**  
 Range: **2**

**HEAVY WEIGHT DRILL PIPE DIMENSIONS & MATERIALS**

PIPE			TOOL JOINT		
OD	4	in	Connection	<b>VAM Express VX39</b>	
Wall thickness	0.75	in	OD	5	in
ID	2-1/2	in	ID	2-1/2	in
Central upset OD	4	in	Box length	24	in
Central upset length	0	in	Pin length	29	in
			Make-up loss (MUL)	5.750	in
Cross sectional area	7.658	in <sup>2</sup>	Box relief feature	N/A	
Section modulus	5.324	in <sup>2</sup>	Pin relief feature	N/A	
Grade	120	KSI	Grade	120	KSI

**HEAVY WEIGHT DRILL PIPE ASSEMBLY DATA**

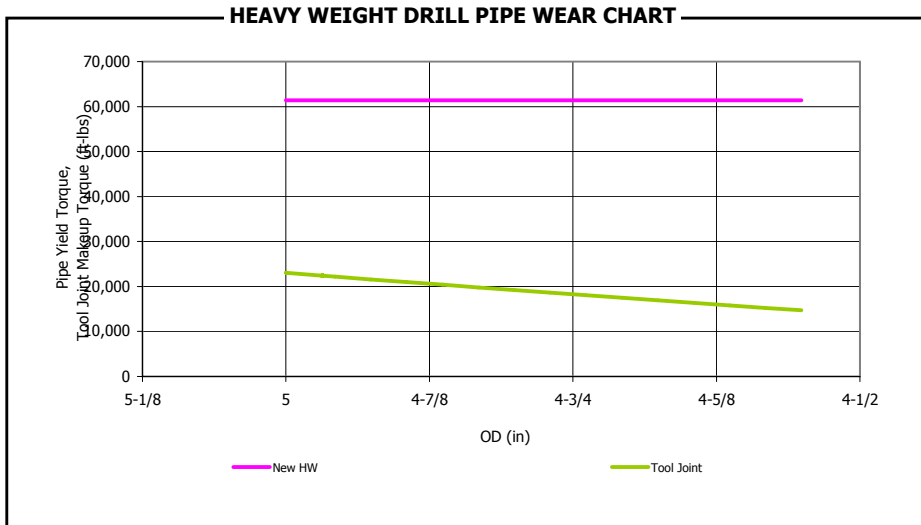
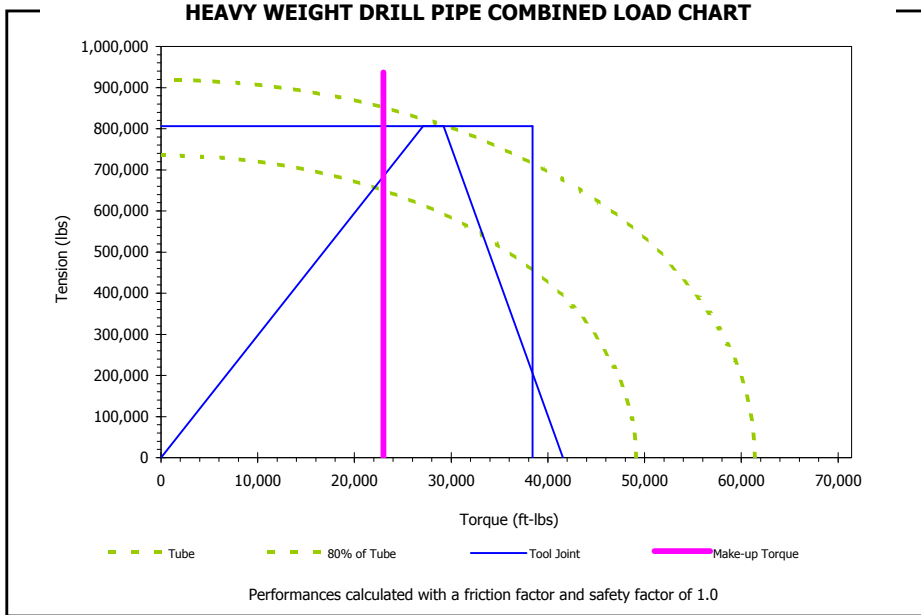
	HANDLING			HYRAULICS	
Overall length	31.0	ft	Open end displacement	0.45	US gal/ft
Approx weight	896	lbs	Closed end displacement	0.70	US gal/ft
Adjusted weight	29.36	lbs/ft	Capacity	0.25	US gal/ft

**HEAVY WEIGHT DRILL PIPE MECHANICAL PERFORMANCES**

PIPE			TOOL JOINT		
Tensile strength	919,000	lbs	Tensile strength	815,000	lbs
Torsional strength	61,400	ft-lbs	Torsional strength	38,400	ft-lbs
TJ / Pipe torsional ratio	0.62		Make-up torque		
80% Tors. strength	49,200	ft-lbs	Recommended	23,000	ft-lbs
			Maximum	24,200	ft-lbs
Collapse pressure	36,600	PSI	Minimum	21,900	ft-lbs
Internal pressure	45,000	PSI	Balance OD	5.100	in
			Bending strength ratio	1.81	

All data nominal and calculated per standard methods. Vallourec Drilling Products does not assume responsibility for results obtained through the use of this information. No warranty expressed or implied.

TTO: V10.5b - HW: V1, 2015/05/21, 4000 2500 TWDP VAM Express VX39 5000 2500 2 120 ksi



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**VAM® Express™ VX39 with 2 ½" ID and 120ksi**

<b>Connection</b>	<b>OD</b>	<b>Torsional Strength</b>	<b>Max MUT</b>	<b>Rec MUT</b>	<b>Min MUT</b>
	in	ft-lb	ft-lb	ft-lb	ft-lb
VX39	5.000	38,400	24,200	23,000	21,900
	4.875	34,300	21,600	20,600	19,600
	4.750	30,400	19,200	18,300	17,400
	4.625	26,700	16,800	16,000	15,200
	4.563	25,000	15,800	15,000	14,300