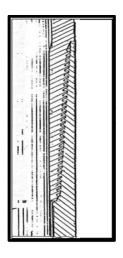


## SPECIAL FEATURES

Hook thread prevents jump out and hoop loading caused by tension loads. The elimination of hoop loading improves pressure seal under both tension and compression loading of the joint.

If you want a FLUSH-FLUSH O.D. JOINT, this is the best joint for you. It is economical, dependable, and fast running.



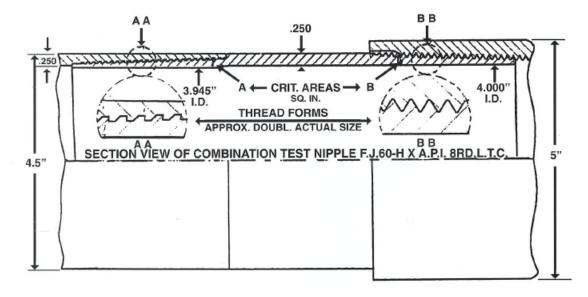
## **WOOLLEY FLUSH JOINT LINER TECHNICAL DATA**

4 1/2"	14.98 lbs/ft	FJ-HS	J55	N80	P110
PIPE BODY DI	MENSIONS				
Nominal Pipe Body O.D. (in)			_	4.500	4.500
Nominal Pipe Body I.D. (in)			_	3.826	3.826
Nominal Wall Thickness (in)			-	0.337	0.337
Nominal Weight (lbs/ft)			-	15.10	15.10
Plain End Weight (lbs/ft)			-	14.98	14.98
Drift I.D. (in)			-	3.701	3.701
PIPE BODY PE	ERFORMANCE DAT	Δ			
Minimum Pipe Body Yield Strength (lbs)			_	353,000	485,000
Minimum Collapse Pressure (psi)			_	11,090	14,340
Minimum Interal Yield Pressure (psi)			-	10,490	14,420
CONNECTION	DIMENSIONS AND	PERF. DATA			
Connection O.D. (in)			-	4.500	4.500
Pin Connection I.D. (in)			-	3.826	3.826
Make-up Loss (in)		-	2.555	2.555	
Critical Area (sq in)			-	2.555	2.555
Joint Efficiency (%)		-	58	58	
Reference Minimum Parting Load (lbs)		-	255,000	319,000	
Reference String Length (ft)			-	10,032	13,325
Collapse Pressure Rating (psi)			-	11,090	14,340
Internal Pressure Rating (psi)		-	10,490	14,420	
RECOMMEND	ED MAKE-UP TORG	<u>UE</u>			
Minimum Final Torque (ft/lbs)			-	1,600	1,600
Maximum Final	Torques (ft/lbs)		-	3,200	3,200

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SKETCH TO ILLUSTRATE THE SET UP FOR TENSILE TESTING, PARTING LOAD CAPACITY OF WOOLLEY F.J.60-H FLUSH JOINT THREAD VS. A.P.I., 8RD, L.T.C. THREADS CUT ON OPPOSITE ENDS OF EACH J OR K-55 4 1/2" O.D., 11.60# CASING TEST NIPPLE



Repeated tests with above setup established two things. the A.P.I. 8rd thread always jumped out at approximately 160,000# tension, leaving the flush joint F.J.60-H undamaged and not tested near to its limit.

The setup was then changed to F.J.60-H thread on both ends of the same test nipples in order to determine parting load of the flush joint thread.

On this setup we had repeated parting loads of 196,000# with one test going to 220,000#.

On all tests to ultimate tensile on the F.J.60-H flush joint, there were no jump outs. All pins parted in critical root of the last effective pin thread.

All tension testing started at 100,000#, then increased in tensile steps of 15,000# with Hydrotest to 6,000 psi betwen tensile steps. There were no leaks prior to parting.