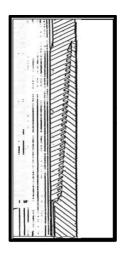


SPECIAL FEATURES

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.



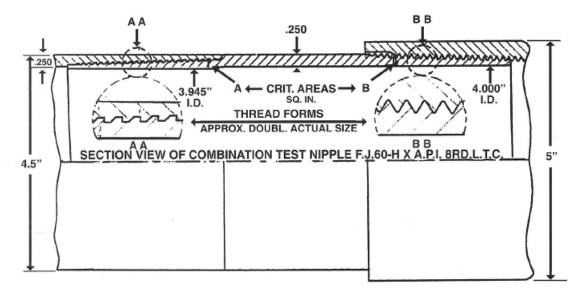
WOOLLEY FLUSH JOINT LINER TECHNICAL DATA

4"	9.11 lbs/ft	FJ-60	J55	N80	P110
PIPE BODY DIMENSIONS					
Nominal Pipe Body O.D. (in)			4.000	4.000	-
Nominal Pipe Body I.D. (in)			3.548	3.548	-
Nominal Wall Thickness (in)			0.226	0.226	-
Nominal Weight (lbs/ft)			9.50	9.50	-
Plain End Weight (lbs/ft)			9.11	9.11	-
Drift I.D. (in)			3.423	3.423	-
PIPE BODY PER	FORMANCE DAT	·A			
Minimum Pipe Body Yield Strength (lbs)			147,400	214,400	-
Minimum Collapse Pressure (psi)			5,110	6,590	-
Minimum Interal Yield Pressure (psi)			5,440	7,910	-
CONNECTION D	MENSIONS AND	PERF. DATA			
Connection O.D. (in)		4.000	4.000	-	
Pin Connection I.I	Pin Connection I.D. Bored (in)		3.468	3.468	-
Make-up Loss (in)			2.750	2.750	-
Critical Area (sq ir	Critical Area (sq in)		1.645	1.645	-
Joint Efficiency (%	loint Efficiency (%)		61	61	-
Reference Minimu	Reference Minimum Parting Load (lbs)		156,000	164,000	-
Reference String	Reference String Length (ft)		8,577	10,621	-
Collapse Pressure	Collapse Pressure Rating (psi)		5,110	6,590	-
Internal Pressure	Internal Pressure Rating (psi)		5,440	7,910	-
Interchangable With Weights (lbs)		10.46	10.46	-	
RECOMMENDED	MAKE-UP TORG	QUE			
Minimum Final Torque (ft/lbs)		700	800	_	
Maximum Final To			1,400	1,600	-

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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.