



9 1/2" O.D.

**9 1/2" PBL BALL LOCK BYPASS SYSTEM  
TECHNICAL SHEET**



SERIAL #	*
A-TOOL O.D.	9.50"
B-TOOL I.D. (DRIFT)	2.27"
FLOW AREA THROUGH TOOL	4.6 sq/in
C-BOX CONNECTION	7 5/8 Reg
D-PIN CONNECTION	7 5/8 Reg
E-ACTIVATION BALL/# TO ACTIVATE:	<b>1</b>
DIAMETER	2 1/2"
MATERIAL	Ertalyte
SHEARING PRESSURE	As Required
F-DEACTIVATION BALL/# TO DEACT.:	<b>2</b>
DIAMETER	1 3/4"
MATERIAL	Steel
G-LOCKING BALL/# TO LOCK OPEN:	<b>1</b>
DIAMETER	1 3/8"
MATERIAL	Ertalyte
SHEARING PRESSURE	As Required
H-SIZE OF PORT	1.35"
NUMBER OF PORTS	2
TFA WHEN TOOL IS OPEN	2.863 sq/in
NUMBER OF CYCLES	5
OVERALL LENGTH	8-9 ft
WEIGHT	1,600 lbs
TENSILE STRENGTH	6,000,00 lbs
TORSIONAL STRENGTH	565,000 ft/lbs
MAKE UP TORQUE	81,290 ft/lbs

**NOTES:**

**NO DRIFT WHEN BALLS ARE IN TOOL.**

\* Tool is rated to operate in temp. up to 420 degrees Fahrenheit.

\* 2.270" Drift to allow 2.250" Reamer ball pass through before PBL activation.

