

9 1/2" O.D. EXT. CAGE

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

SERIAL#

A - TOOL O.D.

B - TOOL I.D.

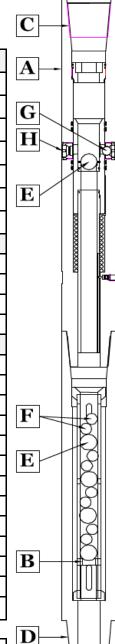
FLOW AREA THROUGH TOOL (E)

- **C BOX CONNECTION**
- **D-PIN CONNECTION**
- E ACTIVATION BALL/# TO ACTIVATE
 DIAMETER / MATERIAL
 SHEARING PRESSURE
- F DEACTIVATION BALL/# TO DEACT.
 DIAMETER / MATERIAL
- G LOCKING BALL/# TO LOCK OPEN DIAMETER / MATERIAL SHEARING PRESSURE

H - SIZE OF PORT
NUMBER OF PORTS
TFA WHEN TOOL IS OPEN
MAX. FLOW CLOSED
MAX. / MIN. FLOW OPEN (ACTIVATED)
NUMBER OF CYCLES
OVERALL LENGTH
WEIGHT

TENSILE STRENGTH MAIN BODY
TENSILE STRENGTH CONNECTION
TORSIONAL STRENGTH MAIN BODY
TORSIONAL STRENGTH CONNECTION
MAKE UP TORQUE

CHNICAL SHEET
9.50"
2.27"
4.6 SQ.IN.
7 5/8 REG
7 5/8 REG
1
2 1/2" / Ertalyte
2
1 3/4" / Steel
1
1 3/8" / Ertalyte
1.35"
2
2.863 SQ.IN
1500 GPM
2000 GPM / 200 GPM
10 **
10 - 11 FT
1,800 LBS
6,000,000 LBS
1,718,834 LBS
565,000 FT/LBS
155,759 FT/LBS
81,290 FT/LBS



NOTES

- * NO THRU DRIFT WHEN BALLS ARE IN TOOL
- * Tool is rated to operate in temp up to 420 degrees F
- * 2.27" ID to allow 2.25" Reamer Ball to pass through before activation
- * Standard ID = 1.50"
- ** 10 Complete Ball Cycles or 5 Complete Dart Cycles w/ Extended Cage