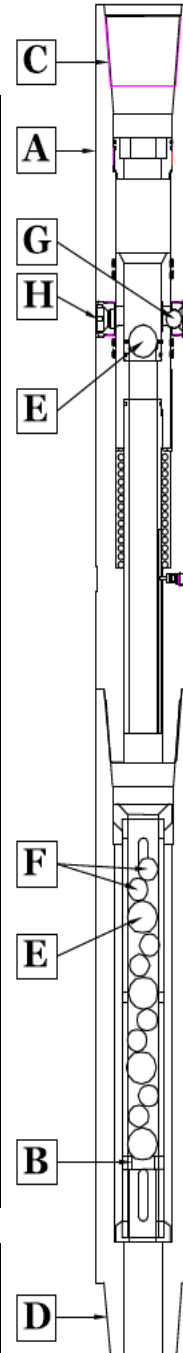


**6 3/4" PBL BALL LOCK BYPASS SYSTEM
TECHNICAL SHEET**



SERIAL #
 A - TOOL O.D.
 B - TOOL I.D.
 FLOW AREA THROUGH TOOL
 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
 NUMBER OF CYCLES
 OVERALL LENGTH
 WEIGHT
 TENSILE STRENGTH
 TORSIONAL STRENGTH
 MAX. MAKE UP TORQUE
 OPTIMUM MAKE UP TORQUE
 MIN. MAKE UP TORQUE

| | |
|----------------|--|
| | |
| 6.75" | |
| 1.27" | |
| 2.92 SQ.IN. | |
| 4 1/2 IF | |
| 4 1/2 IF | |
| 1 | |
| 2" | |
| Ertalyte | |
| As Desired | |
| 2 | |
| 1 3/8" | |
| Steel | |
| 1 | |
| 1 1/8" | |
| Ertalyte | |
| As Desired | |
| 1.1" | |
| 2 | |
| 1.901 SQ.IN | |
| 5 | |
| 8 - 10 FT | |
| 800 LBS | |
| 3,100,000 LBS | |
| 190,000 FT/LBS | |
| 34,840 FT/LBS | |
| 33,558 FT/LBS | |
| 32,277 FT/LBS | |



NOTES

- * **NO THRU DRIFT WHEN BALLS ARE IN TOOL**
- * Tool is rated to operate in temp up to 420 degrees F
- * Drift ID can be enlarged upto 1.50" to allow 1 3/8" Reamer Ball to pass through before activation