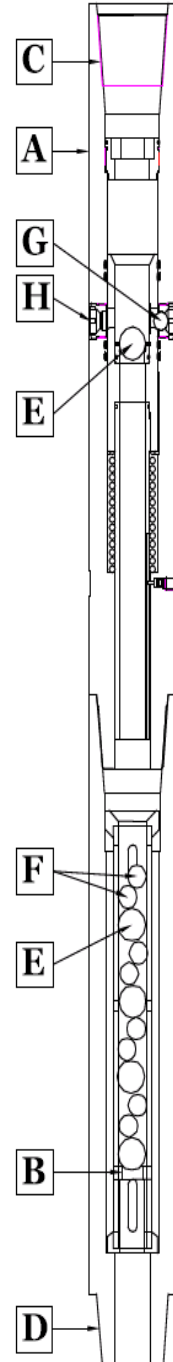


**8 1/4" PBL BALL LOCK BYPASS SYSTEM  
TECHNICAL SHEET**



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

	8.25"
	1.50"
	4.6 sq / in
	6 5/8 Reg
	6 5/8 Reg
	1
	2 1/2"
	Ertalyte
	As Desired
	2
	1 3/4"
	Steel
	1
	1 3/8"
	Ertalyte
	As Desired
	1.35"
	2
	2.863 sq / in
	5
	8 - 10 ft
	1,000 lbs
	3,700,000 lbs
	335,000 ft / lbs
	46,450 ft / lbs
	45,700 ft / lbs
	44,950 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"