

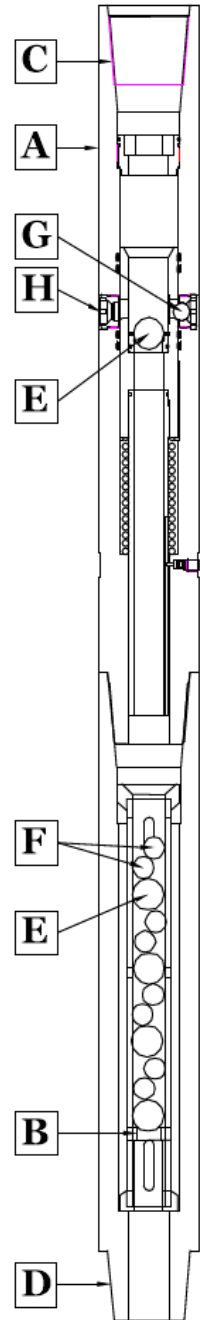


**6 3/4" O.D.  
EXT. CAGE**

**6 3/4" 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

	6.75"
	1.50"
	2.92 SQ.IN.
	4 1/2 IF
	4 1/2 IF
	1
	2" / Ertalyte
	2
	1 3/8" / Steel
	1
	1 1/8" / Ertalyte
	1.1"
	2
	1.901 SQ.IN
	850 GPM
	1200 GPM / 100 GPM
	10 **
	10 - 11 FT
	880 LBS
	3,100,000 LBS
	1,551,000 LBS
	190,000 FT/LBS
	63,700 FT/LBS
	34,840 FT/LBS



**NOTES**  
 \* **NO THRU DRIFT WHEN BALLS ARE IN TOOL**  
 \* Tool is rated to operate in temp up to 420 degrees F  
 \* 1.50" ID to allow 1 3/8" Reamer Ball to pass through before activation  
 \* Standard ID = 1.27"  
 \*\* 10 Complete Ball Cycles or 5 Complete Dart Cycles w/ Extended Cage