

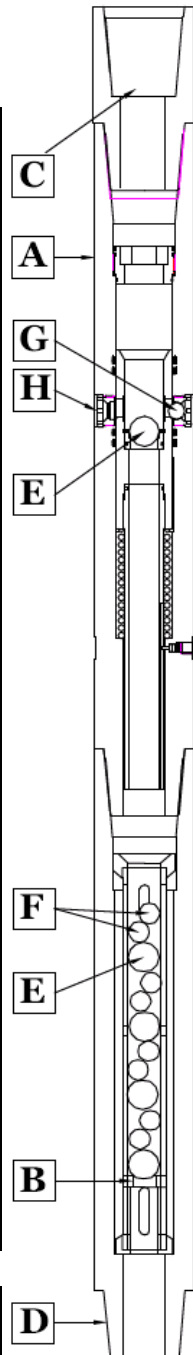


6 1/2" O.D.

**6 1/2" XH PBL BALL LOCK BYPASS SYSTEM
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

	6.50"
	1.27"
	2.92 SQ.IN.
	4 1/2 XH
	4 1/2 XH
	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
	5
	8 - 11 FT
	970 LBS
	2,500,000 LBS
	1,183,900 LBS
	166,000 FT/LBS
	45,400 FT/LBS
	26,710 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
 * Is Available
 * 4 1/2 IF Torque = 34,190 FT/LBS