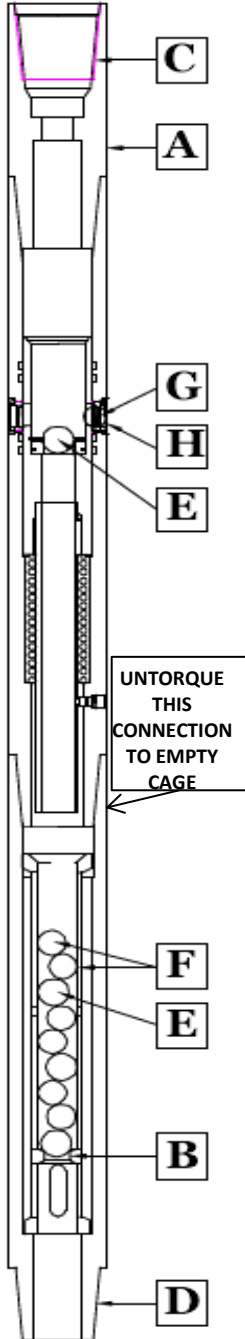


**2 7/8" PBL BALL LOCK BYPASS SYSTEM
TECHNICAL SHEET**



- 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
- MAKE UP TORQUE

SERIAL #	
A - TOOL O.D.	2.875"
B - TOOL I.D.	9/16"
FLOW AREA THROUGH TOOL	0.785 SQ.IN.
C - BOX CONNECTION	2 3/8 PAC
D - PIN CONNECTION	2 3/8 PAC
E - ACTIVATION BALL/# TO ACTIVATE	1
DIAMETER	1.00"
MATERIAL	Torlon
SHEARING PRESSURE	
F - DEACTIVATION BALL/# TO DEACT.	2
DIAMETER	7/8"
MATERIAL	Steel
G - LOCKING BALL/# TO LOCK OPEN	1
DIAMETER	0.70"
MATERIAL	Torlon
SHEARING PRESSURE	
H - SIZE OF PORT	0.68"
NUMBER OF PORTS	2
TFA WHEN TOOL IS OPEN	0.72 SQ.IN
NUMBER OF CYCLES	4
OVERALL LENGTH	5 - 6 FT
WEIGHT	115 LBS
TENSILE STRENGTH	415,000 LBS
TORSIONAL STRENGTH	12,000 FT/LBS
MAKE UP TORQUE	2,200 FT/LBS

NOTES

- * **NO THRU DRIFT WHEN BALLS ARE IN TOOL**
- * Tool is rated to operate in temp up to 420 degrees F

Maximum Flow Rate after Activation is 4 BPM

