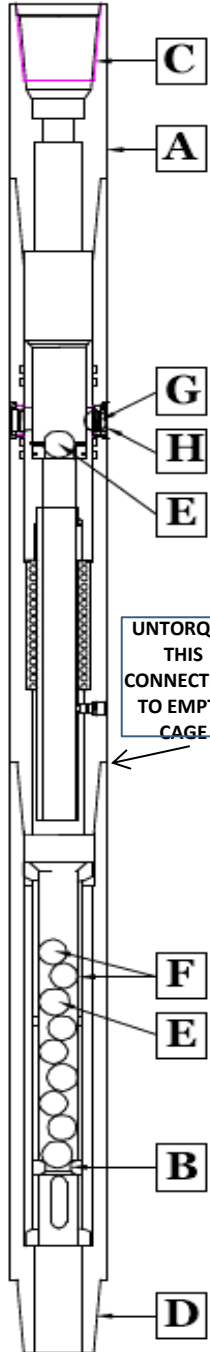




3 1/8" O.D.
3-PORT HF
1" ACT BALL

3 1/8" HF PBL BALL LOCK BYPASS SYSTEM
3-PORT 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

UNTORQUE
THIS
CONNECTION
TO EMPTY
CAGE

SERIAL #	
A - TOOL O.D.	3.125"
B - TOOL I.D.	9/16"
FLOW AREA THROUGH TOOL	0.785 SQ.IN.
C - BOX CONNECTION	2 3/8 REG
D - PIN CONNECTION	2 3/8 REG
E - ACTIVATION BALL/# TO ACTIVATE	1
DIAMETER	1.00"
MATERIAL	Torlon
SHEARING PRESSURE	
F - DEACTIVATION BALL/# TO DEACT.	3
DIAMETER	29/32"
MATERIAL	Steel
G - LOCKING BALL/# TO LOCK OPEN	NA
DIAMETER	NA
MATERIAL	NA
SHEARING PRESSURE	
H - SIZE OF PORT	7/8"
NUMBER OF PORTS	3
TFA WHEN TOOL IS OPEN	1.80 SQ.IN
NUMBER OF CYCLES	7
OVERALL LENGTH	5 1/2 - 6 1/2 FT
WEIGHT	125 LBS
TENSILE STRENGTH	490,000 LBS
TORSIONAL STRENGTH	16,500 FT/LBS
MAKE UP TORQUE	3,000 FT/LBS

NOTES

- * **NO THRU DRIFT WHEN BALLS ARE IN TOOL**
- * Tool is rated to operate in temp up to 420 degrees F
- * Internal Connection Torque = 5,600 FT/LBS
- Maximum Flow Rate Before Activation is 5 BPM**
- Maximum Flow Rate After Activation is 8 BPM**



COMPLETED BY _____

DATE _____

3125HF-2017
Preliminary