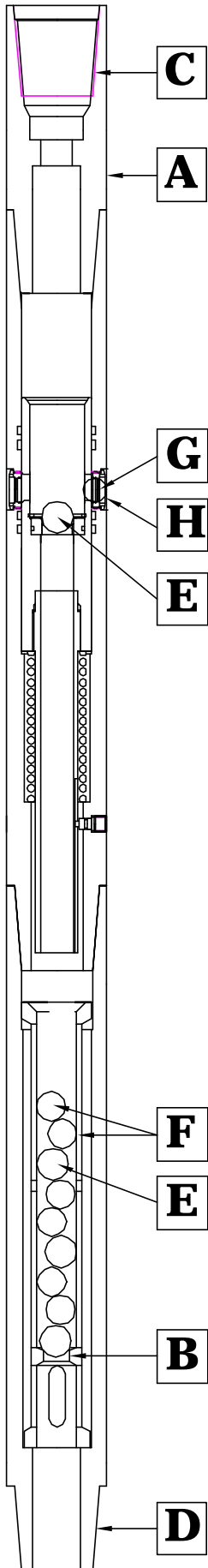


**3 1/8" PBL BALL LOCK BYPASS SYSTEM
TECHNICAL SHEET**



SERIAL #	_____	*
A-TOOL O.D.	_____	3.125"
B-TOOL I.D. (DRIFT)	_____	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	_____	As Desired
F-DEACTIVATION BALL/# TO DEACT.:	_____	2
DIAMETER	_____	7/8"
MATERIAL	_____	Steel
G-LOCKING BALL/# TO LOCK OPEN:	_____	1
DIAMETER	_____	0.700"
MATERIAL	_____	Torlon
SHEARING PRESSURE	_____	75% of act shear
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	_____	125 lbs
TENSILE STRENGTH	_____	490,000 lbs
TORSIONAL STRENGTH	_____	16,500 ft/lbs
MAKE UP TORQUE	_____	3,000 ft/lbs

NOTES:

NO DRIFT WHEN BALLS ARE IN TOOL.

* Tool is rated to operate in temp. up to 420 degrees Fahrenheit.

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