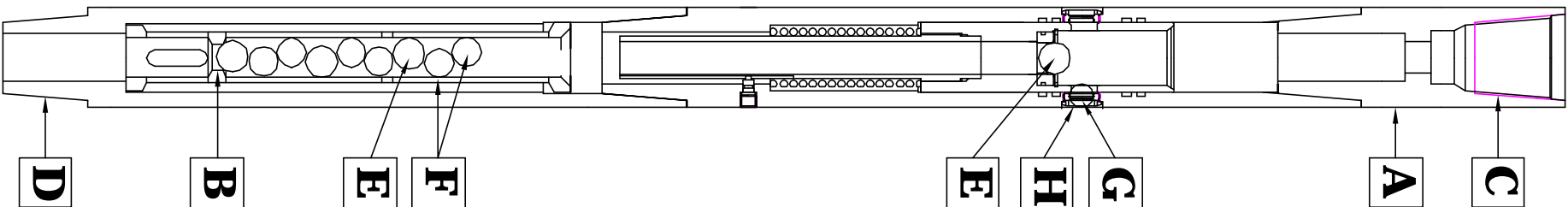


**3 1/2" PBL BALL LOCK BYPASS SYSTEM
TECHNICAL SHEET**



SERIAL #	_____	*
A-TOOL O.D.	_____	3.50"
B-TOOL I.D. (DRIFT)	_____	1.00"
FLOW AREA THROUGH TOOL	_____	1.07 sq/in
C-BOX CONNECTION	_____	2 3/8 IF
D-PIN CONNECTION	_____	2 3/8 IF
E-ACTIVATION BALL/# TO ACTIVATE:	_____	1
DIAMETER	_____	1.25"
MATERIAL	_____	Torlon
SHEARING PRESSURE	_____	As Desired
F-DEACTIVATION BALL/# TO DEACT:	_____	2
DIAMETER	_____	1 1/16"
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	_____	3
OVERALL LENGTH	_____	5 - 6 ft
WEIGHT	_____	132 lbs
TENSILE STRENGTH	_____	490,000 lbs
TORSIONAL STRENGTH	_____	19,000 ft/lbs
MAKE UP TORQUE	_____	3,700 ft/lbs

NOTES:

NO DRIFT WHEN BALLS ARE IN TOOL.

* Tool is rated to operate in temp. up to 400 degrees Fahrenheit.

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