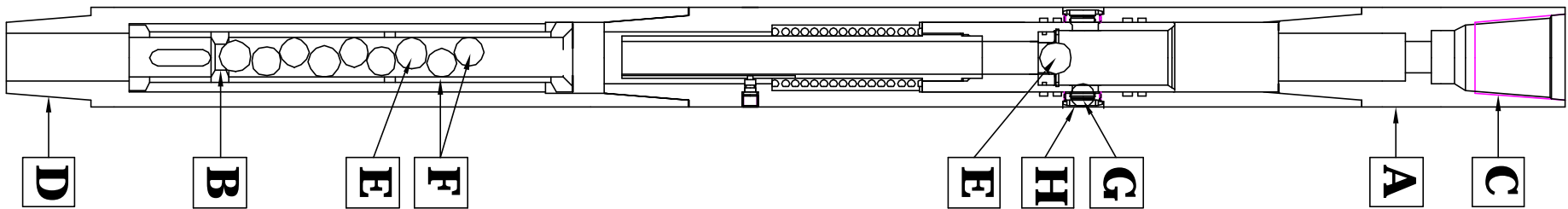


**4 3/4" PBL BALL LOCK BYPASS SYSTEM
TECHNICAL SHEET**



SERIAL #	_____	*
A-TOOL O.D.	_____	4.75"
B-TOOL I.D. (DRIFT)	_____	1.25"
FLOW AREA THROUGH TOOL	_____	1.76 sq/in
C-BOX CONNECTION	_____	3 1/2 IF
D-PIN CONNECTION	_____	3 1/2 IF
E-ACTIVATION BALL/# TO ACTIVATE:	_____	1
DIAMETER	_____	1.50"
MATERIAL	_____	Torlon
SHEARING PRESSURE	_____	As Desired
F-DEACTIVATION BALL/# TO DEACT:	_____	2
DIAMETER	_____	1 3/8"
MATERIAL	_____	Steel
G-LOCKING BALL/# TO LOCK OPEN:	_____	1
DIAMETER	_____	1 1/8"
MATERIAL	_____	Torlon
SHEARING PRESSURE	_____	75% of act shear
H-SIZE OF PORT	_____	1.1"
NUMBER OF PORTS	_____	2
TFA WHEN TOOL IS OPEN	_____	1.901 sq/in
NUMBER OF CYCLES	_____	4
OVERALL LENGTH	_____	7 - 9 ft
WEIGHT	_____	251 lbs
TENSILE STRENGTH	_____	1,000,00 lbs
TORSIONAL STRENGTH	_____	49,500 ft/lbs
MAKE UP TORQUE	_____	11,500 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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