

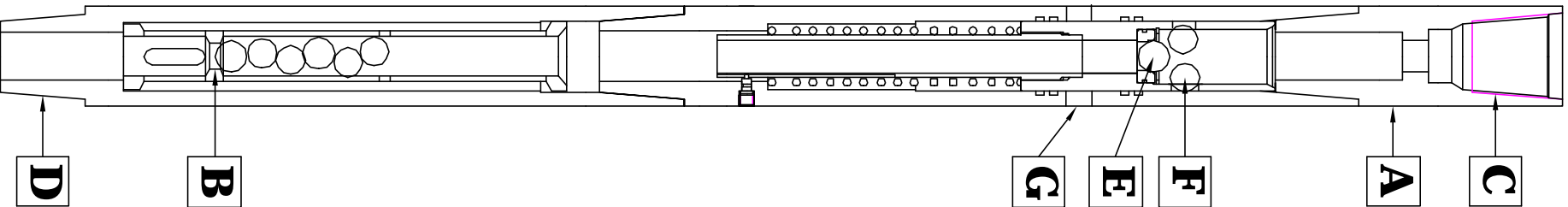
3 1/2" O.D.



DRILLING SYSTEMS INTERNATIONAL



3 1/2" PBL DUAL PORT 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:		
DIAMETER	_____	1.25"
MATERIAL	_____	Torlon
NUMBER OF BALLS TO ACTIVATE	_____	1
BALL SHEARING PRESSURE	_____	As Desired
F-DEACTIVATION BALL:		
DIAMETER	_____	1 1/16"
MATERIAL	_____	Chrome Steel
NUMBER OF BALLS TO DEACTIVATE	_____	2
G-SIZE OF PORT	_____	1.00"
NUMBER OF PORTS	_____	2
TFA WHEN TOOL IS OPEN	_____	1.571 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:

*There is no drift when balls are in tool.

*Tool is rated to operate in Temp. up to 420 Degrees Fahrenheit.

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