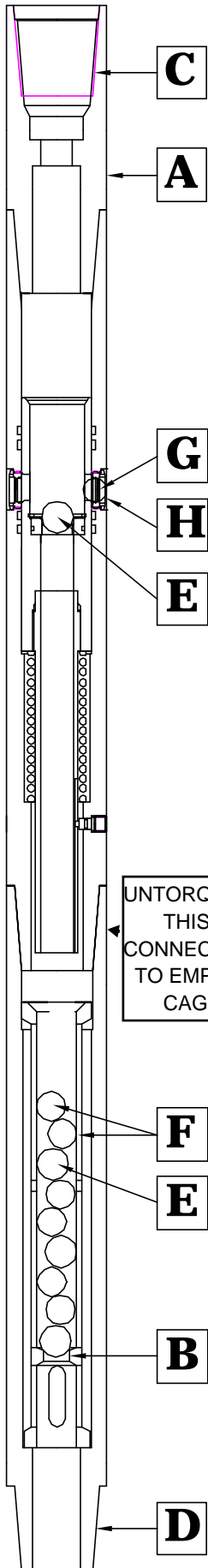


**3 1/8" PBL BYPASS SYSTEM
TECHNICAL SHEET**



| | | |
|---|-------|----------------------|
| SERIAL # | _____ | * |
| A-TOOL O.D. | _____ | 3.125" |
| B-TOOL I.D. (DRIFT) | _____ | 9/16" |
| FLOW AREA THROUGH TOOL | _____ | 0.58 sq/in |
| C-BOX CONNECTION | _____ | 2 3/8 PAC |
| D-PIN CONNECTION | _____ | 2 3/8 PAC |
| E-ACTIVATION BALL/# TO ACTIVATE: | _____ | 1 |
| DIAMETER | _____ | 7/8" |
| MATERIAL | _____ | Torlon |
| SHEARING PRESSURE | _____ | As Desired |
| F-DEACTIVATION BALL/# TO DEACT.: | _____ | 2 |
| DIAMETER | _____ | 13/16" |
| MATERIAL | _____ | Steel |
| G-LOCKING BALL/# TO LOCK OPEN: | _____ | NA |
| DIAMETER | _____ | NA |
| MATERIAL | _____ | NA |
| SHEARING PRESSURE | _____ | NA |
| H-SIZE OF PORT | _____ | 0.75" |
| NUMBER OF PORTS | _____ | 2 |
| TFA WHEN TOOL IS OPEN | _____ | 0.88 sq/in |
| NUMBER OF CYCLES | _____ | 5 |
| OVERALL LENGTH | _____ | 5 - 6 ft |
| WEIGHT | _____ | 125 lbs |
| TENSILE STRENGTH | _____ | 415,000 lbs |
| TORSIONAL STRENGTH | _____ | 12,000 ft/lbs |
| MAKE UP TORQUE | _____ | 2,200 ft/lbs |

NOTES:

NO DRIFT WHEN BALLS ARE IN TOOL.

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

* Maximum Flow Rate after Activation is 4 BPM

