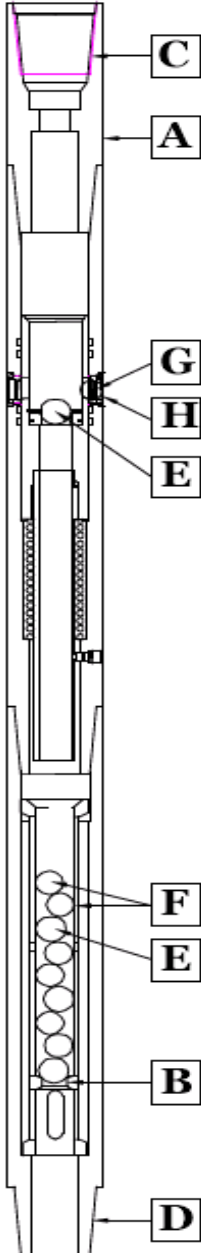




**4 3/4" O.D.
EXT. CAGE**

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



- SERIAL #
- A - TOOL O.D.
- B - TOOL I.D.
- FLOW AREA THROUGH TOOL (E)
- C - BOX CONNECTION
- D - PIN CONNECTION
- G - LOCKING BALL/# TO LOCK OPEN
- H - SIZE OF PORT
- F - DEACTIVATION BALL/# TO DEACT.
- E - ACTIVATION BALL/# TO ACTIVATE
- NUMBER OF PORTS
- TFA WHEN TOOL IS OPEN
- MAX. FLOW CLOSED
- MAX. / MIN. FLOW OPEN (ACTIVATED)
- NUMBER OF CYCLES
- OVERALL LENGTH
- WEIGHT
- TENSILE STRENGTH MAIN BODY
- TENSILE STRENGTH CONNECTION
- TORSIONAL STRENGTH MAIN BODY
- TORSIONAL STRENGTH CONNECTION
- MAKE UP TORQUE

| | |
|-----------------------------------|-------------------|
| SERIAL # | |
| A - TOOL O.D. | 4.75" |
| B - TOOL I.D. | 1.27" |
| FLOW AREA THROUGH TOOL (E) | 1.67 SQ.IN. |
| C - BOX CONNECTION | 3 1/2 IF |
| D - PIN CONNECTION | 3 1/2 IF |
| G - LOCKING BALL/# TO LOCK OPEN | 1 |
| H - SIZE OF PORT | 1 1/2" / Torlon |
| F - DEACTIVATION BALL/# TO DEACT. | 2 |
| E - ACTIVATION BALL/# TO ACTIVATE | 1 3/8" / Steel |
| NUMBER OF PORTS | 1 |
| TFA WHEN TOOL IS OPEN | 1 1/8" / Torlon |
| MAX. FLOW CLOSED | 1.1" |
| MAX. / MIN. FLOW OPEN (ACTIVATED) | 2 |
| NUMBER OF CYCLES | 1.901 SQ.IN |
| OVERALL LENGTH | 600 GPM |
| WEIGHT | 1000 GPM / 50 GPM |
| TENSILE STRENGTH MAIN BODY | 10** |
| TENSILE STRENGTH CONNECTION | 9 - 11 FT |
| TORSIONAL STRENGTH MAIN BODY | 400 LBS |
| TORSIONAL STRENGTH CONNECTION | 1,000,000 LBS |
| MAKE UP TORQUE | 725,000 LBS |
| | 49,500 FT/LBS |
| | 19,200 FT/LBS |
| | 11,500 FT/LBS |

NOTES

- * **NO THRU DRIFT WHEN BALLS ARE IN TOOL**
- * Tool is rated to operate in temp up to 420 degrees F
Optional 1.80" No-Go Available
- ** 10 Complete Ball Cycles or 5 Complete Dart Cycles w/ Extended Cage



COMPLETED BY

DATE

475EXT-2014