


Prevent costly well control events

Guardian™

 Low cost value to limit high cost risk
of well control issues

Large diameter bore
after activation prevents
pressure increase to allow
for continued drilling

Activated by dropping a 1" ball
which is then captured
within the tool

Compact design with a 26.04"
overall length

Utilizes Viton seals and o-rings for
compatibility with harsh fluid

Same dependable design principles
and materials utilized in the WOS
dual and quad flapper assemblies

About This Product

The Workover Solutions Guardian System is an on-demand set of contingency dual flapper check valves that can be run in the tool string as a backup well control device. It is run in the passive mode and remains as such until activated by dropping a 1" ball which is then captured within the tool to not interfere with ball drop activated tools run beneath. Furthermore, the Guardian will allow for the passing of up to a ¾" ball through the assembly for activation of tools below when desired without adverse effect.

Benefits

- Allows for continued drilling in the case of a flapper valve washout
- Prevents tripping pipe in the event of a washout
- Ensure well control with a passive set of valves
- Secondary well control device increasing safety
- Low cost value to limit high cost risk of well control issues
- Ball drop design reduces time to activate check valves and continue drilling

 Increase safety of downhole well control devices

Guardian™

Product Details

Tools Size, in	2-7/8	3-1/8
Series	288	313
Max OD, in	2.88	3.13
Max ID, in	0.83	0.83
Overall Length, in	25.54	26.04
Shoulder to Shoulder length, in	23.29	23.17
Torsional Yield, ft-lbs	4,150	6,250
Top Connection	2-3/8 REG Box	2-3/8 REG Box
Bottom Connection	2-3/8 REG Pin	2-3/8 REG Pin
Tensile Yield, lbf	213,800	306,100



 Eliminate costly wireline pipe recovery operations in well control instances

Features

- Deployable backup dual flapper check valves
- Large diameter bore prevents pressure increase
- Compact design
- Captures 1" activation ball, allows for passage of 3/4" ball for tools below
- Rebuilt, pressure tested and inspected by trained WOS personnel
- Utilizes Viton seals and o-rings for compatibility with harsh fluid

Accessories

- WOS PowR Motors
- WOS High Flow Check Valves
- WOS AV Sub
- WOS Flex Sub
- WOS PulverizR Bits
- BitSavR



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MADE IN THE U.S.A.

