



Guardian System

On-demand set of contingency dual flapper check valves

Guardian System

- 🌀 Introduction to tool
- 🌀 Features
- 🌀 Benefits
- 🌀 Specs & Accessories
- 🌀 Contact Information
- 🌀 WOS Overview and Locations



Guardian System

- 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 $\frac{3}{4}$ " ball through the assembly for activation of tools below when desired without adverse effect.



Features

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



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



Specs & Accessories

Guardian		
Tools Size	2-7/8"	3-1/8"
Max OD	2.88	3.13"
Max ID	0.83	0.83"
Overall Length	25.54	26.04"
Torsional Yield	3830 ft/lbs	5760 ft/lbs
Top Connection	2-3/8" PAC Box	2-3/8" REG Box
Bottom Connection	2-3/8" PAC Pin	2-3/8" REG Pin
Tensile	214900 ft/lbs	282,600 ft/lbs

Accessories

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

Contact Information

To secure the highest quality of tools engineered, manufactured and tested in the USA contact your local WOS representative or contacts below

Main phone - 346-774-4433

Email - sales@wos.com

WOS Company Overview

- 🌀 Started Operations in Q3 2015
- 🌀 Fully Supported Downhole Tool Division
 - Design & Engineering
 - Machining & Fabrication
 - Field Operations
 - Rebuild & Redress
 - Evaluate Performance
- 🌀 Wireline
 - 4 trucks in the Northeast and 2 in West Texas
 - Started operations in July 2018
- 🌀 Operational Coverage
 - Pennsylvania, Ohio, West Virginia, and New York
 - Texas, New Mexico
 - North Dakota, Wyoming
 - Louisiana



WOS Locations

