

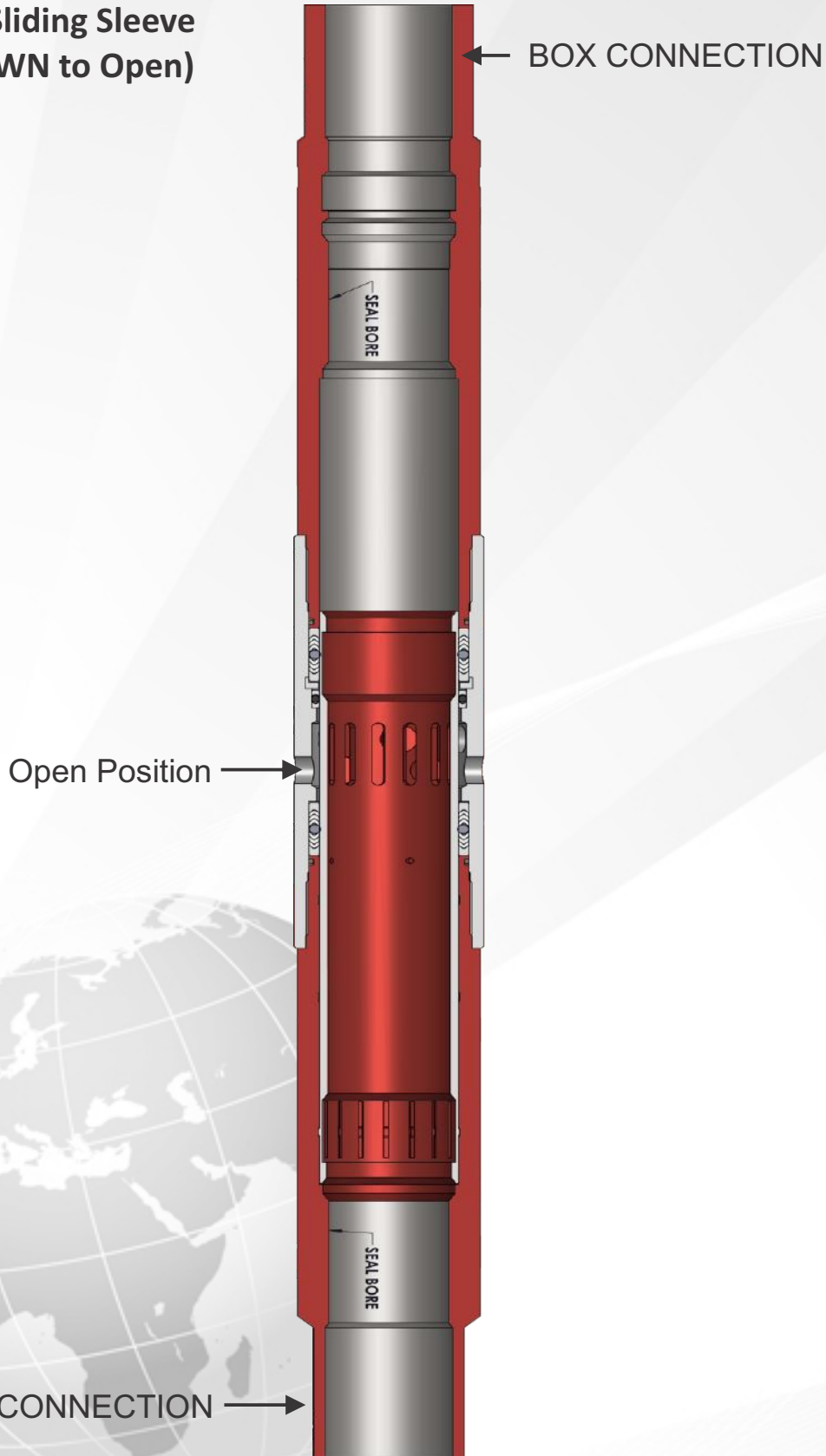
# MAXIMUS

Completion Systems

## FLOW CONTROL SYSTEMS



### MXO - Sliding Sleeve (Jar DOWN to Open)



### MXO - Sliding Sleeve Selective (Jar DOWN to Open)

MXO Sliding Sleeve is a communication device with a ported inner sleeve that can be opened or closed using a shifting tool by standard slickline or coiled tubing methods. Equalizing holes in the inner sleeve provide pressure equalization between the tubing and casing annulus as the sleeve is opened. The Sliding Sleeve is made up to and forms part of the tubing string.

The MXO Sliding Sleeve is a shift-down-to-open tool.

#### Features and Benefits

- Compact and simple field proven design
- Standard MXO Sliding Sleeve is manufactured using 4140 18-22Rc Alloy Steel with Viton elastomers for Standard and H2S Service.
- MX Selective Nipple Profile to land slickline tools.

#### Technical Details

- **Minimum ID:** Seal Bores.
- **Opening Direction:** UP
- **Drift Diameter:** 0.0010" to 0.0015" smaller than seal bore Min. I.D.
- **Shifting Tools:** "B" & "BO"
- **Separation Sleeve:** MXS
- **Blanking Plug:** MPX
- **Standing Valve:** MVX



### MXO - Sliding Sleeve Selective (Jar DOWN to Open)

Seal Bore ID	Flow Area (Ports)		Flow Area (Min ID)		Max OD	Shifting Tool "MB"
	in.	Sq in.	Sq cm.	Sq in.		
1.875	2.355	15.19	2.762	17.82	3.063	1.875
2.312	3.974	25.64	4.199	27.09	3.668	2.312
2.750	7.212	46.53	5.940	38.32	4.281	2.750
2.812			6.211	40.07	4.281	2.812
3.312	11.426	73.72	8.611	55.55	5.680	3.250
3.812			11.413	73.63	5.680	3.812
4.312	10.598	68.37	14.596	94.17	6.400	4.312
4.562			16.337	105.40	7.500	4.562

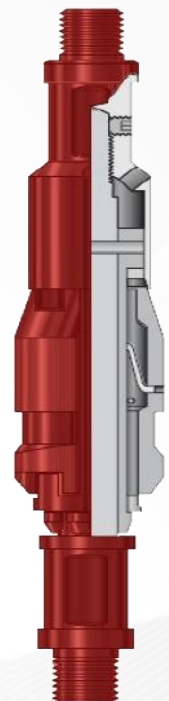
### MB Shifting Tool

MB Shifting Tool is designed to selectively locate and shift most sliding sleeves. This is accomplished by the "MB" Shifting Tool keys engaging the Inner Sleeve of the Sliding Sleeve, depending on the direction the tool is run, up or down, the sleeve is shifted.

MB Shifting Tools are supplied standard with self-releasing keys, allowing the shifting tool to disengage.

Self-releasing keys also allow multiple Sliding Sleeves to be shifted in 1 trip.

MB Shifting Tools can also be supplied dressed with Shear-To-Release keys allowing the Shifting Tool to shift only 1 Sliding Sleeve.



MB Shifting Tool

