

# MAP Oil Tools

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## **MXO, MXA & MXD Circulating Sleeve**

The MXO Circulating Sleeve is a downhole flow control device mounted in the production tubing. It effectively controls the flow between the tubing and the casing annulus by means of internal sleeve that is opened and closed by standard wireline methods. The MXO Sleeve can be installed at any point in the tubing string. More than one can be installed without any loss of function. The sleeve can be selectively opened and closed no matter what their positions. The MXA Circulating Sleeve is a downhole flow control device as the MXO sleeve. The difference is that the model "MB" shifting tool is used to open (jarring up) or close (jarring down) the MXA sleeve. The MXD Circulating Sleeve is a downhole flow control device as the MXO sleeve. The only difference is that it has twice the communication port area than MXO circulating sleeve. The MXO, MXA & MXD Circulating Sleeve may be used in the following applications: Displacing kill or completion fluid Allowing multiple zones to produce up one tubing string Selective testing or stimulation of individual zones Circulation to kill the well Gas lifting the well Landing a blanking plug in the profile in the upper sub to shut in the well, test the tubing, or test the sleeve itself Circulating inhibitors or methanol Features: Dependable, simple, quick Features an "X" nipple profile above and a packing bore above and below the communication ports Ports can be closed without leaving any obstructions in the tubing once the shifting operation is completed The Model "MB" shifting tool is used to open (jarring down) or close (jarring up) the MXO & MXD circulating sleeve The Model "MB" shifting tool is used to open (jarring up) or close (jarring down) the MXA circulating sleeve The sleeve is designed so that normal wireline activities will not open or close the sleeve inadvertently All premium threads available

MXO Part Number (Click for part list and technical information)	MXA Part Number (Click for part list and technical information)	MXD Part Number (Click for part list and technical information)	Seal Bore	Max OD
<a href="#">Tech Sheet</a> <a href="#">001902187260100</a>	1.87	1.875 3.063		
<a href="#">Tech Sheet</a> <a href="#">001902231440100</a>	<a href="#">Tech Sheet</a> <a href="#">001702275620100</a>	<a href="#">Tech Sheet</a> <a href="#">001702281620100</a>	Size 2 3/8	2.8 Thro
			EUE Pin <a href="#">Tech</a> Pin	2.81