

ESD[®] ACTUATOR APPLICATION DATA SHEET



Flow-Quip M-Drive[™] Solar Powered Actuator System Automates Remote Gate Valve

Ready for shipment to a pipeline system in northern New Mexico this M-Drive actuator system provides remote valve automation for a Grove through conduit gate valve where electrical power is not available. The solar collector is sized to power the SCADA system RTU and to keep the M-Drive batteries charged. When a signal is received to close this valve a DC motor driven bi-directional fluid drive system powers the valve to the proper position. End of stroke limit switches stop the motor drive and signal valve position to the SCADA system.

Type: M-Drive[™] - LINEAR

ADS No. 7301A

FLOW-QUIP, INC.
7440 E. 46th Place
Tulsa, OK. 74145-6306

Ph: 918.663.3313
Fax: 918.663.9034
www.flowquip.com



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The M-Drive™ Power Module supplies the Fluid Drive for the Hydraulic Actuator mounted on the Valve

The Power Module (shown here with the lockable door open) contains the complete fluid drive system for powering the valve open and closed. All electrical and hydraulic controls are housed within the enclosure and space may be provided for the customer supplied RTU unit.

A technician operates the separate manual pump. This back up pump is useful during site start up and when battery levels are low. Note: In the bottom of the cabinet two connectors are provided for 12 VDC truck battery power.

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