

# ESD<sup>®</sup> ACTUATOR APPLICATION DATA SHEET



## **Flow-Quip M-Drive™ Solar Powered Actuators protect Product Pipelines in Argentina**

*Thirty-Nine of these systems were field installed on existing 24" pipeline through conduit gate valves in northern Argentina. They were installed along with a new pipeline SCADA system, which allows the pipeline dispatcher to monitor pressures and flow at each valve site and close sectional block valves if needed.*

*The large steel cabinet holds the M-Drive bi-directional fluid drive system and the SCADA RTU equipment. Batteries are provided for the RTU and satellite communication system. Electronic controls provide "slow cycle" closing of each valve (over 10 minutes) so that normal shutdown of the pipeline will not cause pressure shock to the 25 year old pipeline. A much faster time of operation is available emergency shutdown.*

*At each valve site powerful Flow-Quip Hydraulic Linear Actuators (lower right) were field mounted on existing through conduit gate valves.*

**Type: M-Drive™ - LINEAR**

**ADS No. 7302**

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