



*The global leader in customized valve automation*

ATI is pleased to offer our customers the proven and patented pipeline technology that the flow control industry knows as Gevalco.



### **RATE-OF-DROP TEST KIT**

The ATI Rate-of-Drop Test Kit is used to calibrate and simulate various pipeline operating scenarios in order to test automation control strategies. Supplied in a portable self-contained enclosure, the Rate-of-Drop test kit is easily connected to the control system in the field. Quick-disconnect ports, and precision gauges are included to measure the pipeline pressure and various pressures within the control module. The test kit is also used to calibrate the trip points for the Line Break, Station Bypass, and Low Pressure ESD control modules. Various emergency scenarios can then be simulated, under live conditions, to test control action without inadvertently causing a shutdown. Utilizing the Rate-of-Drop test kit to calibrate and test control modules ensures the valve activates when and only when desired.



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When calibrating and testing the Line Break module, the test kit monitors the pressure levels in the pipeline, the pressure level in the reference tank, and the differential pressure across the timing orifice used to determine the rate-of-drop trip point. Utilizing the Line Break calibration charts, the setpoint of the differential switching valve can be tested against simulated rates of pressure drop to obtain an exact trip point. As a standard, the Line Break control module is provided with test ports and isolation valves for easy connection to the test kit.

The Rate-of-Drop test kit can also be used to calibrate the Station Bypass and Bi-Directional Station Bypass control modules. The test ports provided with the Station Bypass control module connect the test kit in parallel with the differential pressure sensing lines from the suction and discharge of the compressor station. Utilizing the precision differential gauge, and the digital pressure gauge, a station failure can be simulated and the exact trip point calibrated.

All other control modules with pressure shutdown functions, such as the ATI Low Pressure Emergency Shutdown and the High Pressure Emergency Shutdown module can also be calibrated and tested with the Rate-of-Drop test kit.