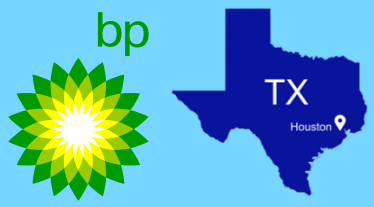
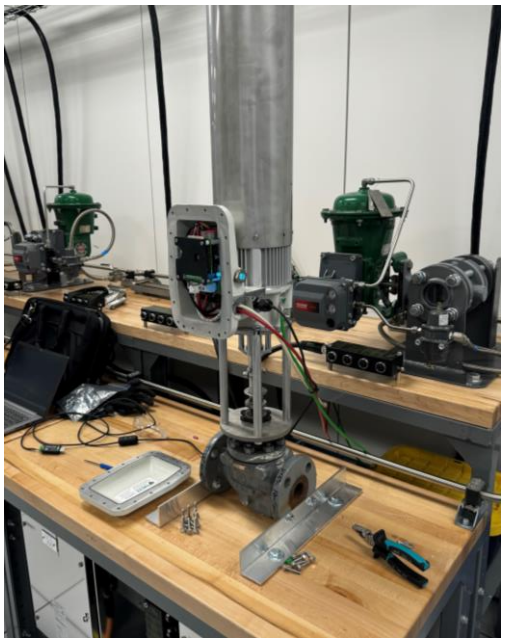
KINITICS AUTOMATION

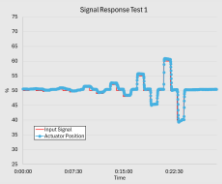
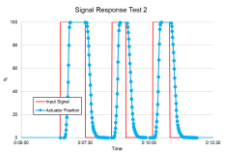
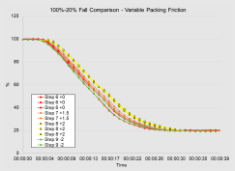
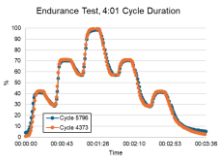
CASE SUMMARY

bp CHCP Lab Assessment

The performance of a Kinitics KVA38 electric actuator was independently evaluated at bp's CHCP lab in Houston, TX. Mounted on a representative control valve, previously used in bp operations, the KVA38 was subjected to a series of evaluation tests, including positioning response, disruption, and endurance tests. The actuator-valve assembly demonstrated reliable and automated flow control capabilities without significant performance degradation under limited lab conditions.





Test	Overview	Findings	
Signal Test 1	Evaluate response to small and large motions similar to the demands on a metering valve	Positional Accuracy: 0.71% Deadband: <0.25% Max Over/Undershoot: 0.92%	
Signal Test 2	Observe response when actuator receives full open and full close commands similar to a dump valve	Dead time: 3s Rising Response time: 15s Falling Response time: 16.5s Linear Speed: 2.1mm/s	
Disruption	Establish that the KVA38 can operate equipment as valve stem loading is changed	Minimal effect. 2s increase to dead time under certain conditions	
Endurance	Accumulate high cycles of an intensive motion profile to evaluate durability of the KVA38 over extended use	14,096 total cycles, 140,960 total repositions completed.	

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