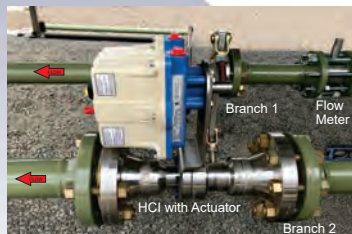
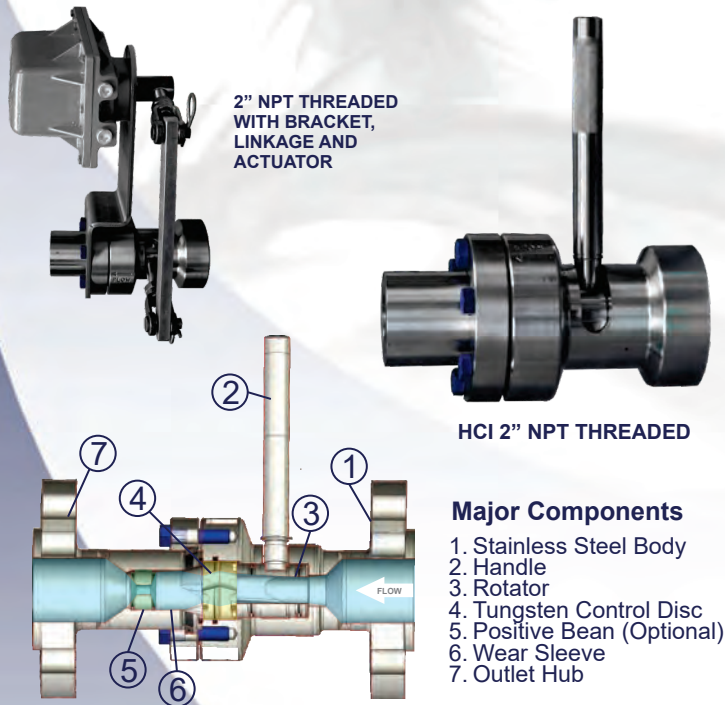


## Split Flow Application

The application requires the operator to control very wide flow and pressure fluctuations in process. As new wells are brought on line the salt water produced as a by-product of the process is directed to several disposal locations. Fluid dynamics range from very high pressure and flow to very low pressure and flow changing on a weekly basis.

### HYDROPLEX HCI



Flow Potential Options  
Branch 1 only - Low Flow/High Pressure  
Branch 2 only - High Flow/High or Low Pressure  
Branch 1 and 2 - High Flow/High or Low Pressure

Automated Valve on branch 2 and manual valve on Branch 1 (converted to automation later).

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The application is to control and transmit liquids produced by gas wells to a centralized disposal location. The client was experiencing issues of high trim wear and poor control with conventional globe style control valves. The valves required constant maintenance and caused loss of production due to malfunction and resulting downtime.

The flow requirement ranged from very high flows, (16,000 BPD) with low differential pressure (20 to 50 PSI) to low flows (2,000 BPD) with high differential (1000 to 1200 PSI) through a single process pipeline. The system fluctuations occurred on a weekly basis. After some experimenting we resolved the issue by setting up a Split Flow Manifold controlled by the client's SCADA system receiving information from two pressure transmitters and two flow meters.

When the production requirements changed, the SCADA system directed the flow to Branch 1, branch 2 or both 1 and 2 together. The logic analyzed the flow and pressure automatically and adjusted the valves to yield the best results for volume, pressure and control. We have a number of valve systems in service and the client's production results continue to improve and down time has been minimized.

