Introduction

When oil and gas are extracted, large amounts of brine water are typically brought to the surface. More than 140,000 wells in operation in the United States produce over 2 billion gallons of water every day. When states began to implement rules preventing disposal of brine water to surface water bodies, injection became the preferred way to dispose of this waste fluid.
The perfect fit

Traditional mechanical flowmeters are negatively affected by produced water from oil wells due to the presence of sand and other solid particles. This limits the lifespan of the meter and results in increased maintenance and replacement cost. ABB’s ProcessMaster electromagnetic flowmeter has no rotating parts reaching into the pipe that cause wear and pressure loss.

ProcessMaster is the perfect fit for this application. The flowmeter is proven to be robust and reliable. The sensor design covers pressure ratings as high as CL2500. Optimized linings such as rubber or ETFE ensure resistance to abrasion and chemicals. Approvals in accordance with ATEX, IECEx, FM allow for installation in hazardous areas.
Trust a world leader in flow measurement

ABB has been manufacturing flowmeters for over 80 years and is responsible for many of the great innovations in flow measurement. Our flowmeters have a reputation for quality, reliability and accuracy. Plus, they are all backed by a global network of service engineers that are available where and when you need them.

Fig. 2: ProcessMaster

The ABB ProcessMaster series of electromagnetic flowmeters deliver performance and peace of mind in one single package.

Key features of ProcessMaster

- High measurement accuracy of up to 0.2 % of rate
- Easy to understand, simple to operate
- Intuitive navigation and configuration
- Detailed diagnostics for rapid decision making, providing the right information to keep the process up and running
- Simplified trouble shooting increases productivity and process safety. Fault finding help text is shown in the display.
- Integral or remote electronics
- Sensor Sizes: DN 3 ... 2000 (1/10" ... 80")
- Pressure ratings up to CL2500
- ATEX, IECEx, FM Ex approvals

Contact us

Please contact your local ABB representative to learn more about these devices and how easy they can be integrated into wellhead injection systems.