

# Valve control for gas well production

## XSeries automation applications



### Automation objective

Automate valve control at a production well to insure production rate and delivery pressure.

A key element in consistent gas production is correct control of the gas sales valve. Good production practices include maintaining a constant well flow rate, well flowing pressure and sales delivery pressure. At the same time, providing for an override of these parameters is necessary to insure that required, safe operating conditions occur.

# Valve control for gas well production

## XSeries automation applications

### Automation solution

The Totalflow XSeries of Flow Computers or Remote Controllers can implement the standard Valve Control Application. The Application positions a control valve to maintain control of either the Differential Pressure (DP), Static Pressure (SP) or Flow Rate. Additionally, an Override function can be selected which will limit any secondary parameter to a maximum value. Override, for example, may be used to maintain the well's production rate, pressure entering the gathering system, or shut-in/bring-on the well based on a compressor on-off state. The Valve Controller has the option to be used with a Digital Valve Actuator or an Analog Valve Actuator.

## Solution benefits

### Consistent production

Valve control allows for steady state production and insures more flow time for the well.

### Safe environment

Control override prevents unsafe delivery of pressures and flow rates into the gas system.

### Easy installation

Mount XSeries; connect solar panel; connect wiring from valve and pressure transmitters.

### Simple start-up

Enter initialization requirements with PCCU software or WinCCU software.

### Low power electronics

Helps extend battery life, reduces maintenance expense, allows for more run time.

### Extendable

The XSeries product can also provide flow measurement, alarming, data logging, level measurement, remote communications, plunger optimization, and nomination control while performing valve control.

## Totalflow recommended equipment

- Qty 1 – Model XSeries Flow Computer or Remote Controller with Solar Panel
- Qty 1 – PCCU Laptop Communication Software
- Options – Radio for Remote Communications; WinCCU Remote Host Software

# Contact us

## **ABB Inc.**

### **Upstream Oil & Gas**

#### **Process Automation**

Toll-free: + 1 800 442 3097

Quotes: [totalflow.inquiry@us.abb.com](mailto:totalflow.inquiry@us.abb.com)

Orders: [totalflow.order@us.abb.com](mailto:totalflow.order@us.abb.com)

Training: [totalflow.training@us.abb.com](mailto:totalflow.training@us.abb.com)

Support: [totalflowsupport@us.abb.com](mailto:totalflowsupport@us.abb.com)

### **Upstream Oil & Gas**

#### **Main Office**

7051 Industrial Boulevard

Bartlesville, OK 74006

Ph: +1 918 338 4888

### **Upstream Oil & Gas**

#### **California Office**

4300 Stine Road, Suite 405-407

Bakersfield, CA 93313

Ph: +1 661 833 2030

### **Upstream Oil & Gas**

#### **Kansas Office**

2705 Centennial Boulevard

Liberal, KS 67901

Ph: +1 620 626 4350

### **Upstream Oil & Gas**

#### **Texas Offices**

3700 West Sam Houston

Parkway South, Suite 600

Houston, TX 77042

Ph: +1 713 587 8000

3900 South County Road 1290

Odessa, TX 79765

Ph: +1 432 563 5144

150 Eagle Ford Road

Pleasanton, TX 78064

Ph: +1 830 569 8062

[www.abb.com/upstream](http://www.abb.com/upstream)

## **Note**

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.

Copyright © 2016 ABB Inc.

All rights reserved



Product  
webpage