

# FIELDVUE™ DVC6000f Digital Valve Controller

Built for fieldbus with unmatched capabilities



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The DVC6000f for FOUNDATION™ fieldbus is the newest addition to Emerson's family of Fisher® FIELDVUE™ digital valve controllers.

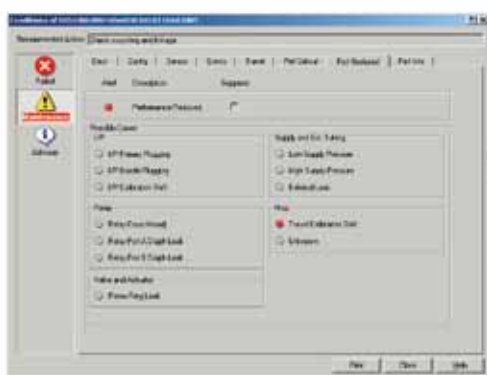
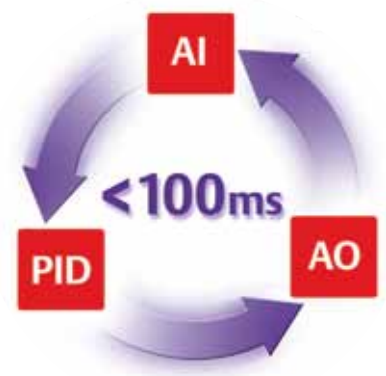
These instruments have established an industry benchmark for fast, accurate response and valve diagnostics. With new, unmatched capabilities, the DVC6000f helps you improve control and availability while reducing maintenance costs.

### Easy Diagnostics, No Roadblocks

With FIELDVUE Performance Diagnostics (PD) capability inside the DVC6000f instrument, control valve maintenance is easier. PD runs continuously, analyzing valve and actuator data while the valve remains in service, controlling the process normally. From the information gathered, the DVC6000f can trigger PlantWeb™ alerts that forewarn valve performance problems before they impact process operation.

### Extremely Fast Control Loops—100 Milliseconds

Imagine running fast control execution on every process loop across your plant! With the DVC6000f, fast AO and PID block execution support a 100 millisecond loop macro-cycle. Placing the control in the DVC6000f greatly reduces upfront configuration engineering costs and system controller loading. Integration with Emerson's DeltaV™ digital automation system provides easy to use PID Auto Tune and loop analysis tools.



### PlantWeb Alerts

*The DVC6000f instrument is a core component of PlantWeb architecture. It provides you with PlantWeb alerts when coupled with AMS ValveLink™ software and the DeltaV digital automation system.*

### Transition to Fieldbus Without Taking the Process Down

The ability of the DVC6000f instrument to function in two operating modes, pressure and travel, has multiple benefits for hot cutovers. Personnel can locate the DVC6000f on the valve, make a fieldbus connection and configure it to pressure control mode to perform as a fieldbus-to-pressure transducer, providing input to the existing pneumatic positioner. Then, when the control room is ready, the DVC6000f can be easily switched to travel control, replacing the pneumatic positioner.

### Unequaled Control Performance

Tight closed-loop control of the process delivers reduced process variability, the bottom line for quality and profitability. With the DVC6000f instrument you can count on the same superb control that you're used to with the DVC6000 (HART®) instrument. Since the two instruments respond identically to control signals, you can easily migrate to a fieldbus system while using existing control tuning and maintaining tight process performance.

### Valve and Actuator Data at Your Fingertips

Accurate information is key to valve diagnostics. Valve and actuator spec sheet data for diagnostic use are now embedded in the DVC6000f instrument during factory mounting, assuring timely and accurate information at your fingertips.

### Upgrades Made Easy

Using FIELDVUE HotLink™ technology, it's now possible to download firmware upgrades to the DVC6000f instrument over the fieldbus segment wiring, with minimal interruption to process operations. This unique capability lets you take advantage of firmware improvements and increased functionality, while making the upgrade process fast and convenient right from the control room.

### Ready for Harsh Environments

The DVC6000f instrument is built to survive in even the toughest environments. Temperature extremes, corrosive atmospheres and hazardous areas are all home to the DVC6000f. Optional stainless steel construction and remote mounting provide added durability to fit any application need.

#### Universal Mounting

*The DVC6000f can be mounted to any linear or rotary valve actuator. Over 800 pre-designed controller-to-actuator mountings are available.*



#### Field Configurable

*Designed to support all devices using the FOUNDATION fieldbus or HART communication protocols—including the DVC6000f—the 375 Field Communicator enables you to configure and maintain all of your instruments and valves with one handheld device.*

DVC6000f Specifications	
Digital communication protocol	FOUNDATION fieldbus
Available configurations	Single- or double-acting. Valve- or remote-mounting. Stainless steel construction option. -40°C to 85°C (-40°F to 185°F). Optional construction to -52°C (-61°F).
Mountings	Linear (sliding-stem), rotary or quarter-turn
Electrical classification	Explosion proof, flameproof, intrinsically safe, non-incendive design. FM, CSA, ATEX, IEC, JIS approvals. CE mark in accordance with EMC directive, EN61326-1.
Fieldbus function blocks	AO, AI, MAI, PID, ISEL, OS, DO, DI
Electrical input	Bus powered (not polarity sensitive) 18mA
Enclosure	Meets NEMA 4X, CSA 4X, IEC 60529 IP66



**DVC6000f Instrument**

*The label on the terminal cover denotes that the DVC6000f is a registered FOUNDATION fieldbus product.*

**The Next Step**

Contact your local Emerson Process Management sales office or sales representative location for more information or to make a purchase. Their highly skilled and experienced applications personnel are ready to help you take advantage of the many benefits of the DVC6000f.

<http://www.Facebook.com/FisherValves>

<http://www.YouTube.com/user/FisherControlValve>

<http://www.Twitter.com/FisherValves>

<http://www.Linkedin.com/groups/Fisher-3941826>

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