

Fisher® easy-Drive™ Electric Actuators

Low Power, High Reliability



Fisher® easy-Drive™ Electric Actuators



Fisher D4 valve with
easy-Drive electric actuator



Fisher D3 valve with
easy-Drive electric actuator

Environmental Stewardship

Fisher® easy-Drive™ electric actuators are specifically designed for upstream natural gas applications. They can be installed on Fisher D4 or D3 valves and give you the ability to use proven, robust, globe valve technology while protecting the environment from methane gas venting.

Improved Reliability

Gas quality is not always consistent and particulates can be a maintenance problem for pneumatic actuators. Electric actuators avoid this maintenance issue.

Improved Profitability

Traditionally, valves and instrumentation in natural gas applications have been powered by the pressure of the gas itself. This means that gas must be vented to atmosphere—the same gas that would be otherwise sold.

Technical

Fisher easy-Drive electric actuator specifications include low energy requirements of 12 or 24VDC operation, maximum current draw of 3.5A when moving, and an at-rest power draw below 1W. The control signal can be Modbus RTU (RS-485), 4-20 mA, 1-5V, or dry contact, configurable within the Modbus registers. Operating temperature range is -20°C to 70°C (-4°F to 158°F).

The easy-Drive electric actuator can control pressures up to 4250 psi on the D4 valve and maintain a Class IV shutoff indefinitely without power.

Benefits

- No venting of product to atmosphere.
- Eliminates maintenance issues arising from wet or dirty well gas.
- Highly responsive—valve strokes from fully open to fully closed in less than five seconds.
- Easy to commission. Calibrate by opening and closing—no switches to set.
- No power is required to maintain shutoff. The unit can be disconnected and seat load will remain.
- Easy to use.
- Diagnostics available over Modbus.

Complete Electric Wellhead from Emerson Process Management

Fully integrated and supported electric wellhead solutions are available from your local Emerson sales office.

- Fisher electrically actuated globe valves
- ROC, FloBoss™, and ControlWave RTUs and flow computers
- Rosemount™ pressure, level, and temperature sensors
- Daniel™ and Micro Motion™ flow meters

“The easy-Drive is exactly what we are looking for on our wells with dirty and wet gas.”

- HSE manager, Natural Gas Producer

Yellow and green represent responsible natural gas control backed by Fisher product reliability.

FISHER

easy-Drive™

Flexible Control

Modbus RTU (RS-485),
4-20mA, 1-5V, or dry contact.

Ease of Use

Calibrate by opening and
closing. No switches to set.

Low Power Consumption

Capable of being operated
from solar charged battery
systems at 12 or 24VDC.

Reliable Brushless DC Motor

Motor and controls are
designed for remote field
operation.

Sealed Gearbox

The permanently lubricated
gearbox eliminates the need
for cleaning and regreasing.

Explosion-Proof Housing

Approved for Class I, Division 1,
Groups C, D (Zone 1, IIA EXd,
ATEX). IP66/NEMA 4X.

Field-Selectable Flow Rates

FloPro feature allows field
adjustment of capacity without
changing the trim on D3 valve.

Easy and Safe Maintenance

Deep-bore hammer nut for
easy removal of actuator/
bonnet assembly to access
the plug and seat. Maintains
thread engagement until
after process boundary is
broken for user safety.

Excellent Emissions Control

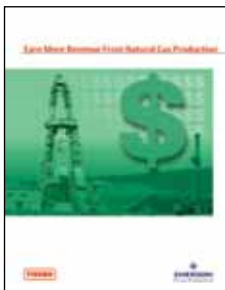
ENVIRO-SEAL™ packing
technology provides an
improved stem seal to
minimize fugitive emissions.



If you found this brochure valuable, may we also recommend the following brochures:



“Fisher® C1 Pneumatic Controller: Reduces Energy Use, Increases Profits”



“Earn More Revenue from Natural Gas Production”



“Fisher® FIELDVUE™ DVC6000 Natural Gas Certified: Integrated Primary Process Seal”



“Fisher® i2P-100 Electro-Pneumatic Transducer: For Safer Operations and Improved Up-Time”



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