

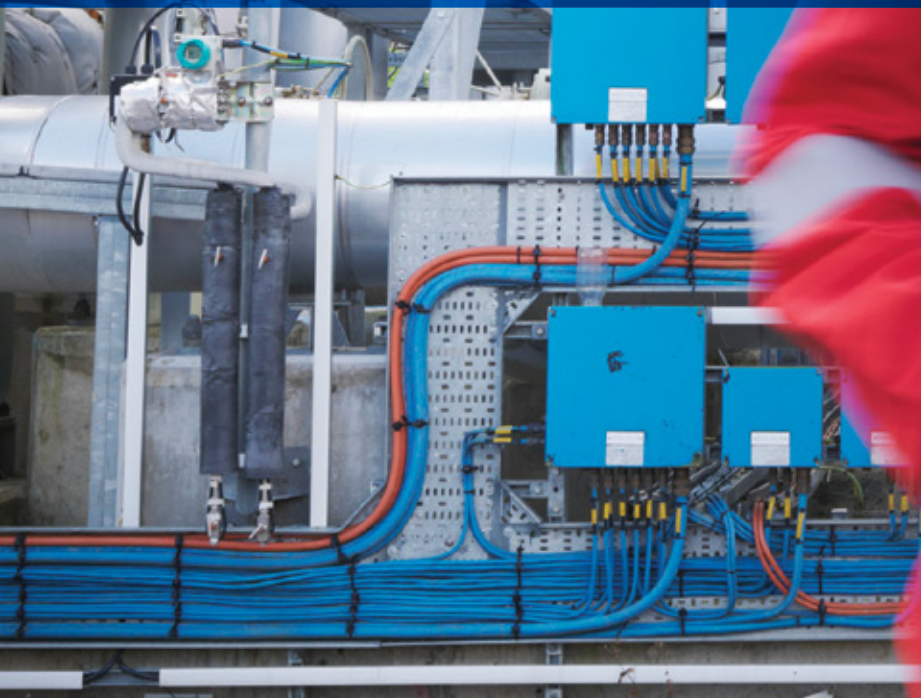


Herculine Electric Actuator Solutions for Dampers and Valves

RELIABLE AND DURABLE

HercuLine® actuators offer high reliability and low maintenance for demanding environments. Rugged construction and continuous duty motors reduce overall maintenance costs and eliminate unplanned outages. These features combined with state-of-the-art electronics ensure accurate and repeatable performance over the life of the actuator.

- Non-contact position sensing
- Repeatability 0.2% of span
- Fail in place on power loss
- 10 to 60 second stroke time for 90° travel



Engineered for Exceptional Reliability, Accurate Positioning and Low Maintenance

Honeywell offers a broad product portfolio of data acquisition products to address most industrial recording needs. Direct sensor connections, Ethernet communications, customizable displays, advanced math functions and a wide selection of data storage choices make it easy to set up, use and analyze your process data. Your operation runs smoothly, safely and efficiently. Data acquisition products are available worldwide from authorized Honeywell representatives.

Simplifies Configuration

Programmable features including:

- Reverse/direct acting
- Failsafe on loss of position sensor
- Deadband
- Failsafe on loss of signal
- Input filter
- Input characterization
- Split range
- Alarm outputs
- and more...



Simplifies Process Monitoring

Programmable output relays assignable to:

- Hi/Lo Temperature
- Stall
- Out of automatic
- Input signal failure
- Position sensor failure
- and more...



Simplifies Maintenance

Embedded information including:

- Accumulated stall time
- Hi/Lo Temp exceeded
- Total travel
- Number of motor starts
- Motor starts in a region
- and more...



HercuLine Actuators are Smart by Design

HercuLine Electric Actuators

Honeywell's HercuLine Electric Actuators are engineered for exceptional reliability, accurate positioning, and low maintenance. Designed for very precise positioning of dampers and quarter-turn valves, they perform especially well in extremely demanding environments requiring continuous duty, high reliability, and low maintenance. With non-contact sensing, the maintenance problems and unexpected shutdowns associated with slidewires and potentiometer wear are eliminated.



HercuLine Smart Actuators

Honeywell's Smart actuators incorporate all of the quality and reliability features of the Herculine actuators with the added benefits of microprocessor-based electronics. These benefits make it easier to install, set up and commission the actuator, while allowing you to monitor the health parameters for proactive maintenance planning.

- HART or RS485/Modbus communications for remote access
- Programmable:
- Alarm and relay outputs
- Characterization, failsafe functions, dead-band, and filtering
- Direction of rotation
- Diagnostic Parameters:
- Maximum Hi and Lo temperature
- Stall and accumulated stall time
- Total travel

HercuLine 10260: The Easy Choice for:

- Gas and air valves
- ID/FD fan inlet damper
- ID/FD fan shutoff damper
- Burner tilt
- Superheated over-fire air
- Coal mill damper
- Superheat damper
- Reheat damper
- Gas recirculation damper
- Bag house dampers
- Fuel/airflow control
- Primary/Secondary air damper
- Penthouse damper
- ID fan speed coupling
- Fd fan speed coupling
- Boiler feed pumps
- Superheat spray valves
- Reheat spray valves
- Cooling tower valve
- Windbox dampers

Use HercuLine 2000 Series to Position:

- Dampers
- Rotary stem valves
- Butterfly valves
- and more...



HercuLine 2002

- All HercuLine 2001 features PLUS:
 - Non-contact position sensing
 - Standard features—Programmable relays
 - Standard features—Auto/Manual switch



HercuLine 2001

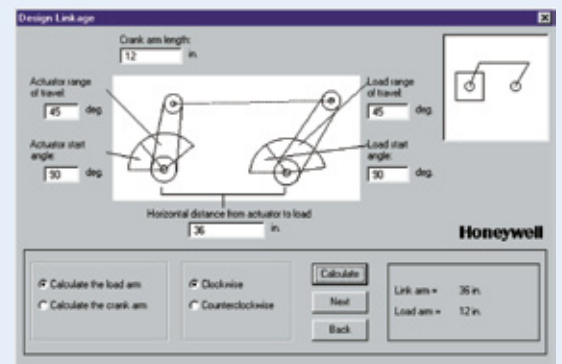
- All HercuLine 2000 features PLUS:
 - Digital, programmable electronics
 - Current or voltage remote setpoint control
 - Optional local Display & Keypad
 - Current, voltage, digital output
 - Modbus RTU communications
 - HART Communications
 - Herculink™ Palm™ PDA software compatible
 - Optional programmable relay outputs



HercuLine 2000: The Basic Motor Unit

- 50 to 400 in.lb. (6-45 N-M) Torque
- On/Off Control
- Position Proportional Control
- Self locking/releasing gear train
- 90 degree and 150 degree adjustable stroke
- 6 to 75 sec. stroke speed at 150 degree/60 Hz.

HercuLink Software Lowers Ownership Cost



Honeywell Actuator Linkage software (HAL)

HercuLink™ Software for PC's: Lowers Ownership Cost

HercuLink software enables access to programming and communication functions available as standard with the Herculine 2001, 2002 and 10260S actuators without the added expense of the local keypad and display HMI. Using a PC, HercuLink software and a RS232/485 converter you can configure, calibrate and access information locally or remotely to the actuator.

- As a modbus master device to send/receive information and control the actuator
- To store setup configuration for download to the actuator
- To download information to a PC in CSV format that has been uploaded to a PDA
- Use your device for calibration, configuration and maintenance data
- Eliminates local display and keypad

Honeywell Actuator Linkage Software

Helps you size, select and install your Honeywell actuator. The software lets you choose the actuator and design the linkage that best fits your application.

HART Communications

Optional HART Communications protocol capability provides access to actuator configuration, calibration and maintenance information.



Easy to Start-Up

Programmable electronics and the convenience of HercuLink™ Palm™ PDA configuration and calibration make it easy to get started.

- **Simple programmable electronics**—allow easy configuration
- **Local Operator Interface (display and keypad)**—facilitates local set-up and calibration
- **RS485/Modbus RTU Communication**—enables plant-wide integration & communication access to all actuator parameters and ease of networking with other Honeywell control products for a complete control solution
- **HART Communication**—enables HART users to integrate Herculine actuators into HART based control & maintenance networks
- **Programmable Relay Outputs**—assigns alarm, diagnostics or position
- **HercuLink™ Palm™ PDA Configuration Software**—Configuration can be done anywhere

Easy to Operate

Once calibrated, the HercuLine™ Smart Actuators work to make process control a breeze.

- **Non-contact position sensing**—provides high repeatability (0.2% of span), increased accuracy, and low non-linearity for higher quality
- **Precise & responsive control**—reduces dead time and overshoot as it starts and stops almost instantaneously
- **Self locking/self releasing gear train**—eliminates hunting, prevents overshoot, and enables bumpless position transfer

Easy to Own

Increased reliability reduces the cost of ownership

- **Embedded information**—eliminate nuisance shutdowns with proactive maintenance
- **Non-intrusive configuration**—prevents contamination as the cover does not have to be removed after initial configuration
- **Non-Contact Position Sensing**—eliminates high maintenance associated with slidewire position sensing
- **No-Burnout motor**—ensures that the actuator is available for control 100 percent of the time and eliminates stall damage
- **Rugged gear train**—provides years of trouble free service with simple efficient steel spur gear initial drive with heavy-duty bronze worm reduction final drive
- **Brakeless non-backdrive design**—eliminates friction brake wear while preventing drift under live load or overshoot

	2000	2001/2002	10260
Physical			
Weight	25 lbs. (11.36 kg.)	27 lbs. (12.27 kg.)	45 lbs. (18 kg.)
Operating Temperature	-40 to 185 °F (-40 to 85 °C)	-40 to 170 °F (-40 to 75 °C)	-20 to 170 °F (-30 to 75 °C) 10260A 185 °F (10260A 85 °C)
Relative Humidity	Full operable over a range of 0-99% R.H. non-condensing	Full operable over a range of 0-99% R.H. non-condensing	Full operable over a range of 0-99% R.H. non-condensing
Output Torque	50 to 400 in.lb. (6 to 45 N-M)	50 to 400 in.lb. (6 to 45 N-M)	10 to 300 lb.ft. (14 to 400 N-M)
Full Travel Stroke Time 60 HZ	6 to 75 sec./150 deg.	6 to 75 sec./150 deg.	10 to 60 sec./90 deg.
Full Travel Stroke Time 50 HZ	7.5 to 90 sec./150 deg.	7.5 to 90 sec./150 deg.	12 to 72 sec./90 deg.
Electrical			
Power Input, 50/60 Hz (single phase unless noted)	100 to 130 Vac 200 to 240 Vac	100 to 130 Vac 200 to 240 Vac	100 to 130 Vac 200 to 240 Vac
Motor	Instant start/stop, non-coasting, non-burnout, continuous duty. Stall for 100 hours	Instant start/stop, non-coasting, non-burnout, continuous duty. Stall for 100 hours	Instant start/stop, non-coasting, non-burnout, continuous duty. Stall for 100 hours
Loss of Power	Actuator stays in place	Actuator stays in place	Actuator stays in place
Local Auto/Man Switch	Optional	Optional	Optional
Actuator with Positioner			
Sensitivity	NA	0.2% to 5.0% of span	0.2% to 5.0% of span
Hysteresis	NA	Less than 0.4% of scale	Less than 0.4% of scale
Repeatability	NA	0.2% of span	0.2% of span
Other			
Communications Models	NA	HART/Modbus RTU	HART/Modbus RTU with Smart
HercuLink Software	NA	Yes	Yes

For More Information

To learn more about Honeywell's actuators, visit www.honeywellprocess.com or contact your Honeywell distributor or account manager.

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