

## Actuators

Honeywell supplies a wide range of electric actuators, and pneumatic positioners. These devices can be used with electric and pneumatic controllers to operate valves, dampers, louvers, burner firing controls, or any other device requiring linear or rotary motion.

Use the **Decision Tree** to select a final control device based on application considerations.

### Description

Honeywell's **HercuLine\_2000 series** actuators are low torque, precision electric actuators incorporating all of the easy-to-use, high quality, and reliable features of the traditional **HercuLine\_** actuators.

Ensuring processes operate at maximum efficiency, with minimal downtime, and lowest lifetime cost requires precision and high reliability Herculine actuators.

They are industrial rated and engineered for very precise positioning of dampers and valves. They perform especially well in extremely demanding environments requiring continuous duty, high reliability, and low maintenance.

**HercuLine\_2000** actuators are used in on/off power to open/close or position proportional with 135 or 1000 ohm feedback applications.

**HercuLine\_2001 and 2002 Smart** actuators are used in current proportional or digital control applications. Access to all actuator parameters for real-time business and maintenance decisions is standard through Modbus RTU, local display, or via **HercuLink\_** Palm PDA software.

**HercuLine\_2002** actuators have additional standard features such as noncontact position sensing and slidewire emulation output.

**HercuLink\_** software for handheld calibration, configuration and access to maintenance data using your Palm PDA

### 10260 Industrial Actuators

Honeywell's 10260 industrially rated rotary control actuators are precision engineered for exceptional reliability, accurate positioning, and low maintenance. Designed for very precise positioning of dampers and quarter turn valves in the power and processing industries, the 10260 performs especially well in extremely demanding environments requiring continuous-duty, high reliability, and low maintenance.

Precise positioning of the actuator is achieved through state-of-the-art motor control and positioning electronics. The motor starts and stops instantaneously, preventing overshoot and hunting. Positioning repeatability of 0.2 % span or better is achievable for extremely tight process control to take full advantage of modern controllers.

A no-burnout synchronous induction motor is combined with a heavy-duty precision machined output worm gear mesh providing a responsive, low maintenance, and non-backdriving actuator. Accidental stalls up to 100 hours can be withstood without damage to the gear train. End-of-travel limit switches are provided as standard to prevent damage to the valve or damper and are backed up by mechanical stops.

Honeywell electric actuators provide instantaneous response to a demand signal, eliminating system non-linearity due to dead time. Additionally, since the actuator is electric, the costs associated with providing and maintaining a clean, dry air supply are eliminated.

A heavy-duty cast crank arm and precision rod-end bearing is provided with each 10260 actuator. Crank arms can be positioned at any angle on the output shaft and an adjustable radius is provided to allow flexibility in linkage set-up.

All 10260 actuators are equipped with a manual handwheel for operation during loss of power or installation. A local auto/manual handswitch can be provided for local operation and has an "out of auto" contact to annunciate that condition.

## Overview

### 11280 Industrial Actuators

Honeywell's 11280 industrially rated rotary control actuators are precision engineered for exceptional reliability, accurate positioning, and low maintenance. Designed for very precise positioning of dampers, vanes, and quarter-turn valves, the 11280 actuators perform especially well in continuous-duty applications in extremely demanding environments.

Precise positioning of the actuator is achieved through state-of-the-art motor control and positioning electronics. The motor starts and stops instantaneously, preventing overshoot and hunting. Positioning accuracy of 0.2 % span or better is achievable for extremely tight process control to take full advantage of modern controllers.

A continuous duty, inverter rated motor is combined with a heavy-duty precision machined output worm gear mesh providing a responsive, low maintenance, and non-backdriving actuator. End-of-travel limit switches are provided as standard to prevent damage to the valve or damper.

Honeywell electric actuators provide instantaneous response to a demand signal, eliminating system non-linearity due to dead time. Additionally, since the actuator is electric, the costs associated with providing and maintaining a clean, dry air supply are eliminated.

A heavy-duty cast crank arm and precision rod-end bearing is provided with each 11280 actuator. Crank arms have an adjustable radius to provide flexibility in linkage set-up.

All 11280 actuators are equipped with a manual handwheel for operation during loss of power or installation. A local auto/manual electric handswitch can be provided for local operation and has an "out of auto" contact to annunciate that condition.

All 11280 actuators are also equipped with a Safety Interlock system. This system, a switch found on the front cover of the unit, allows entry into the unit only after the unit has been manually turned off.