

DESCRIPTION

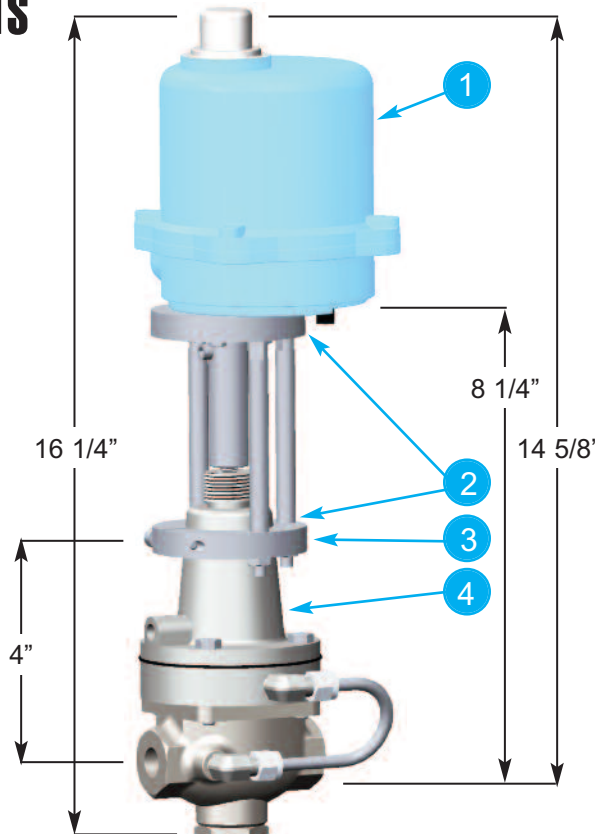


- Compatible with OCV pilot models 1330, 1340, 1356 and 1390. Consult factory for others.
- Allows a manually controlled valve to become a remotely controlled valve
- Adaptable to the following OCV Pressure Control Pilot spring ranges:
 - 50-300 PSI • 20-200 PSI
 - 20-80 PSI • 5-30 PSI
- Can be powered by a solar power system
- No external feedback necessary
- No programming/external software necessary
- Manual Override Ability

The OCV Model 3500 Motorized Pilot Actuator (MPA) operates as a remote method of adjusting the pilot setting of a pressure reducing pilot, pressure sustaining pilot or differential control pilot (consult factory for others). The MPA is affixed to any one of these pilots by means of a stainless steel structured mounting assembly. Once installed, the MPA is connected to the user's SCADA system by a 4-20 mA current loop. If power failure were to occur, the internal memory of the MPA will retain the previous set point (unless the current loop has changed) to be used when power is restored to the system. This provides an uninterrupted pilot setting during a power failure cycle.

COMPONENTS

- 1) Motorized Pilot Actuator
- 2) Adaptor
- 3) Bonnet Clamp
- 4) Bonnet
- 5) Pilot Mounting Bracket (not visible)



OPERATION

When installed on a compatible OCV pilot, the MPA will adjust the pilot set point (within its spring range) proportionally to a 4-20 mA signal provided by the user. The higher the signal provided to the MPA, the higher the set point of the pilot. Jumpers internal to the MPA allow the user to select the appropriate spring range for retrofit applications.

SCHEMATIC SYMBOL



SPECIFICATIONS

Supply Power Input	12V DC < 1.0 Amp No load draw: 50 mA Max load draw: ½ Amp Average current draw while driving: less than 0.6 Amp
Remote Command Inputs	4-20mA, analog signal (isolated and reverse polarity protected) Dry contact closure (CW/CCW) Optional wireless digital control
Alarm Output	Optional dry-contact closure (high/low)
Speed of Rotation Diagnostic	4 rpm
Diagnostic	Internal LED indicator
Loss of Power	Will hold last position
Electrical Connections	Internal terminals
Mechanical Specifications	Environmental Protection Class: NEMA 4X (submersible up to 7 meters for 72 hours without leaking)
Actuator Housing Materials	Aluminum alloy and plastic
Actuator Housing Finish	Dry powder coat and wet spray
Actuator Housing Rating	IP68 (7m/72Hr)
Actuator Housing Gear Train	High alloy Steel gear train Factory lubricated with a wide temperature rated lubricant
Adaptor Material	Stainless Steel
Bonnet Clamp Material	Stainless Steel
Bonnet Material	Stainless Steel
Pilot Mounting Bracket	Stainless Steel
User Must Supply	Cable for electrical power and analog input

MAINTENANCE

Maintenance for the Model 3500 is minimal because it is a self-contained, sealed assembly.

Periodic operational checks should be performed, such as changing the pressure ten pounds to ensure the pilot is responding and correctly controlling the pressure. It might be necessary to lubricate the pilot bonnet bolt with lubricant once a year to prevent galling.

Main pilot rubber good components require periodic replacement. Please check the main pilot information sheet (Model 1330, 1340, 1356, 1390, etc) for replacement kit numbers.

OPTIONS

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|--|---|
| 1) Wired Digital Communications RS232/485 | 3A) Second Current Loop for Monitoring and Alarm Output |
| 2) RF Digital Communications 900Mhz/2.4Ghz | • Option 3 must be used with option 1 or 2 |
| 3) Second Current Loop for Monitoring | • Option 3A can only be used with option 2 |

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