# M6410A, M7410F **Non-Spring Return Actuators**

3-15/16

OPEN position.

valve (Fig. 4).

7157 676

Wiring

T6984F

FOR CARTRIDGE GLOBE VALVES

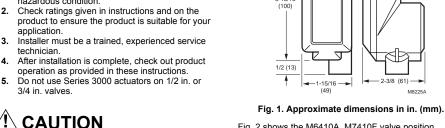
Honeywel

#### INSTALLATION INSTRUCTIONS

### INSTALLATION

## When Installing this Product...

- Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
- Check ratings given in instructions and on the
- 3. Installer must be a trained, experienced service technician
- operation as provided in these instructions.



indicator. To mount the actuator, refer to Fig. 3 through 4:

Make sure the actuator is in the (factory-supplied)

Screw the actuator connector onto the body of the

Fig. 2 shows the M6410A, M7410F valve position

Connect the actuator to the controller using the wiring

diagram for the controller. See Fig. 5 for typical hookup to

Use the M7410F with Excel® 5000/500/100/80 Controllers,

T7984, and W7751 controllers. Power the M7410F from the same transformer as the controller when using Excel

Systems, or T7984 Controllers, when the common lines

comply with wiring diagram shown in Fig. 7.

from the controller and the actuator are connected together and the hot side of the 24 Vac power connection on the transformer is used. See Fig. 6. Electrical installation must

1. Remove valve protective cover (Fig. 3).

Equipment Damage Hazard. Installing a high-force (67.5 lb [300 N] or

89.9 lb [400 N]) actuator on 1/2 or 3/4 in. valve can damage the valve beyond repair. Use only Series 1000 (40.5 lb [180 N]) actuators

with the smaller (1/2 in. and 3/4 in.) valves.



# **?∖ CAUTION**

Electrical Shock or Equipment Damage Hazard. Can shock individuals or short equipment circuitry.

Disconnect power supply before installation.

A low-force (40.5 lb [180 N]) actuator installed on a valve larger than 3/4 in. cannot operate the

#### Location

Select a location where the valve and actuator are accessible

# Mounting

No tools are required to install the actuators on valves because they are threaded onto the valve by hand.



Fig. 2. Valve position indicator.





# CAUTION

Careless Installation Hazard. Forcibly tightening the mounting connection can damage the valve and actuator. Never tighten the connection with a wrench.





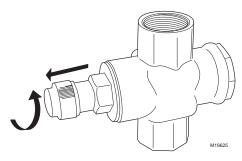


Fig. 3. Removing protective cover from valve.

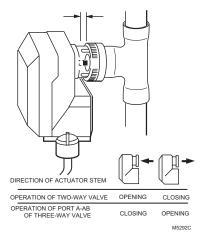


Fig. 4. Mounting actuator to valve.

NOTE: Two-way 1, 1-1/4, 1-1/2 in. valve operation is identical to three-way valve operation.

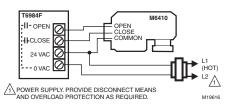


Fig. 5. M6410A used with T6984F.

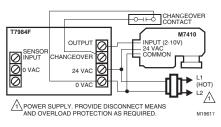


Fig. 6. M7410F used with T7984F.



Fig. 7. Electrical installation showing wire colors and definitions.

# Switch Selection (M7410F)

The two built-in selector switches must be set according to the valve type (two-way or three-way) and the controller output signal (0 to 10V or 2 to 10V). See Fig. 8.

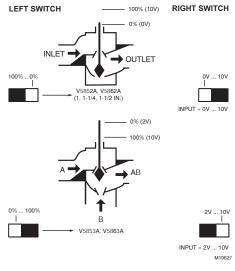


Fig. 8. Switch selection according to controller output signal and valve type (two-way or three-way) [1, 1-1/4, 1-1/2 in. valves shown].

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