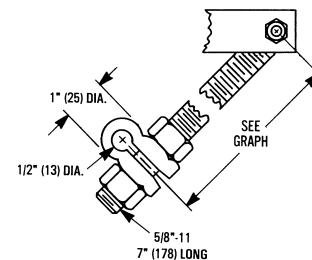
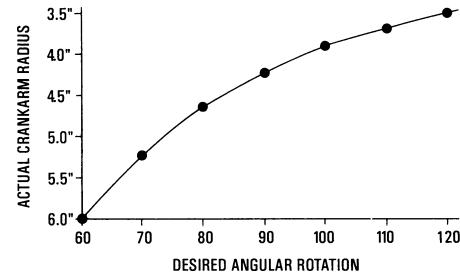


## Installation Guide

### Mounting

The MCP-1160 **MUST** be mounted on a rigid surface due to the force generated at, or near, maximum air pressure.

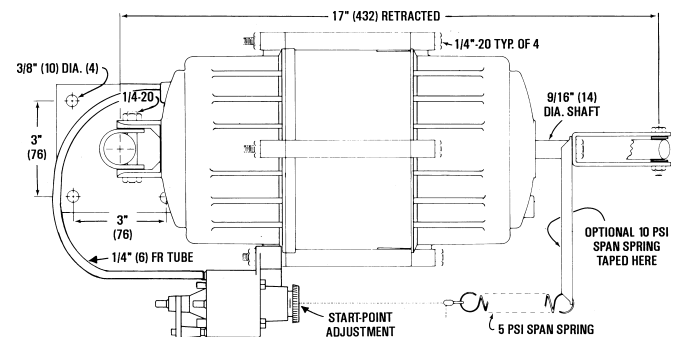
1. Align the actuator with the controlled device. The mounting joint allows the actuator to be located in a different plane from the controlled device.
2. Attach the actuator to the rigid surface through the four 3/8" (4 mm) holes in the mounting bracket.
3. Adjust the crankarm assembly from 60° to 120° rotation as required.
4. DO NOT tighten the universal joint. The actuator must be free to swivel as it operates.



### Connections

MCP-1160 models ordered with positioners are factory piped.

- ◆ Use 1/4" (6 mm) O.D. FR polyethylene tubing.
  - ◆ Use only clean, dry control air. No attempt should be made to use any other medium.
1. Connect the actuator input to the positioner output, Port "1".
  2. Connect the input signal to the positioner to Port "2".
  3. Connect the main air (20 psi) to the center port.



**NOTE:** If the application requires operation near the maximum temperature and maximum pressure, add a tubing restraint to the actuator connection.

## Adjustments and Calibration



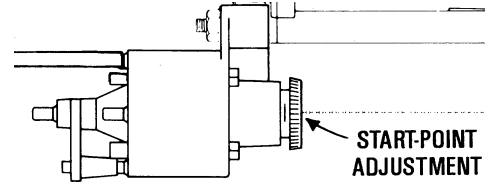
### DANGER

The MCP-1160 contains a large powerful spring. Exercise extreme caution if disassembly is required. The actuator shaft **MUST** be restrained to prevent the spring from expanding.

The MCP-1160 contains an 8-13 psi spring. A positioner allows the unit to operate over any 5 psi span with the start-point adjustable from 3-10 psi. Replace the 5 psi spring with a 10 psi spring to widen the span.

To change the positioner start-point:

1. Apply the desired signal pressure
2. Rotate the start-point adjuster until the actuator starts to stroke.



## Maintenance

The MCP-1160 actuator is designed for long term reliability. No routine maintenance is required, however care should be taken during any installation or maintenance due to the power of the actuator.

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