



Implementation of the Valco Helical Drive Air Actuator

Multiposition Valves

Use of a 4-way solenoid (41E1 or 41E1-CE) is recommended for multiposition actuators. In this implementation air is continuously applied to the actuator, which is directed to step or reset by the solenoid. Energizing the solenoid steps the valve to its next position; de-energizing the solenoid resets the mechanically-ratcheted system in the actuator.

CAUTION:

We recommend bottled instrument air or nitrogen. If plant air from a compressor must be used, an oil separator and water dryer are required.

PROCEDURE:

(Requires one external event)

1. Energize solenoid – air through Normally Closed (N.C.) port.
The valve is stepped to the next position.
2. De-energize solenoid – air through Normally Open (N.O.) port.
The mechanically-ratcheted system in the actuator is reset.

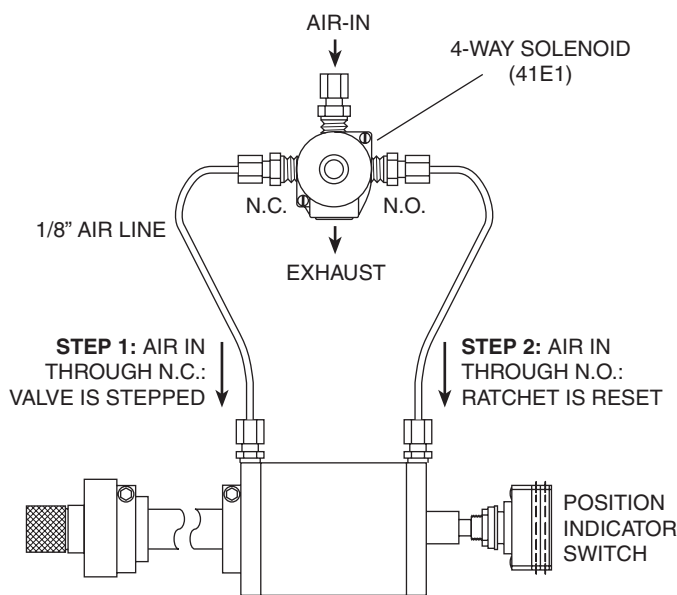


Figure 1
41E1 solenoid/actuator configuration

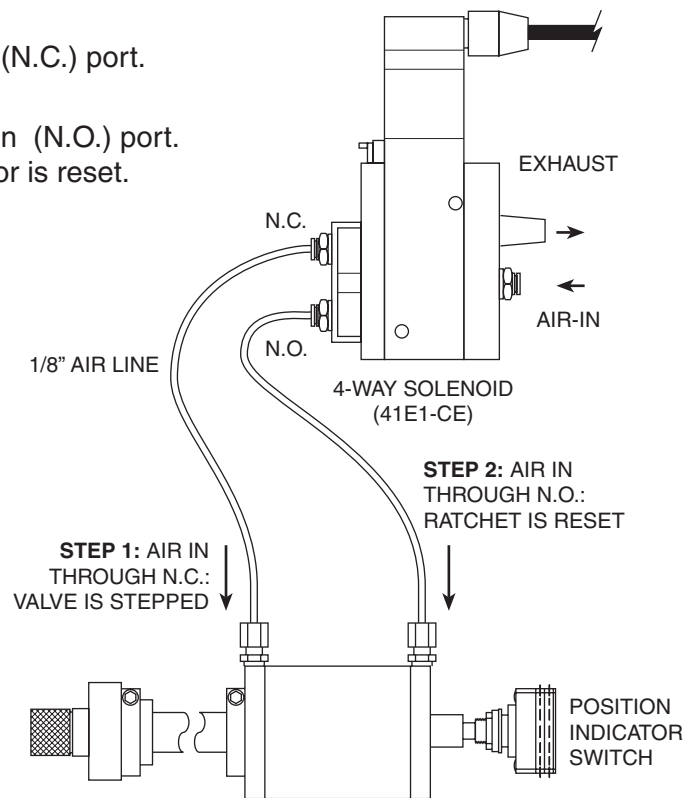


Figure 2
41E1-CE solenoid/actuator configuration

North America, South America, and Australia/Oceania contact:

VICI Valco Instruments Co. Inc.
 P.O. Box 55603
 Houston, TX 77255
 Sales: (800) 367-8424
 Tech: (713) 688-9345
 Fax: (713) 688-8106 valco@vici.com

Europe, Asia, and Africa contact:

VICI VICI AG International
 Parkstrasse 2
 CH-6214 Schenkon
 Switzerland
 Phone: +41 41 925 6200
 Fax: +41 41 925 6201 info@vici.ch

Cheminer® and VICI® are registered trademarks of Valco Instruments Co. Inc. and VICI AG

TN-406 Rev 7/18