

**READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR CONNECTING AIR TO THE VALVE. DAMAGE CAUSED BY NON COMPLIANCE TO THESE INSTRUCTIONS WILL NOT BE COVERED BY WARRANTY.**

### OVERVIEW

The declutchable manual override gear operator allows for manual operation of a pneumatically actuated valve. It is sandwich-mounted between the valve and the actuator utilizing ISO5211 standard size mounting patterns. The gear operator consists of a female output drive connected to an internal gear drive. Turning the operating lever engages the worm gear which in turn operates the gear drive.

The valve, gear operator and actuator are mechanically connected by a coupling shaft which rests on top of the valve stem, passes through the gear operator output drive and engages the actuator output drive.

The gear operator can be mounted either perpendicular or parallel to the pipeline. Installation and testing are included when ordered as part of Valworx actuated valve assembly. Fasteners are not included when ordered as individual component.

Declutchable gear operator is rated IP65 dusttight and weatherproof. Temperature range -4° to 185° F (-20° to 85° C).

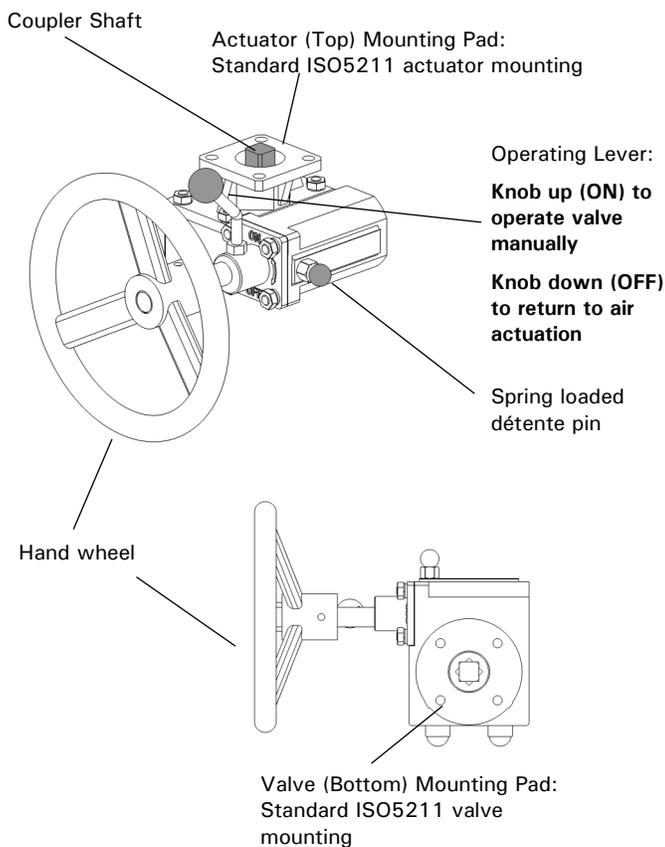
### OPERATION

Pull the détente pin and cycle the operating lever to the ON position. This engages the gear operator with the actuator/valve drive train. Release the détente pin and ensure it has fully retracted. Ensure the operating lever is locked in the ON position.

Use the handwheel to cycle the valve to the desired position. Note: the valve and actuator remain coupled during manual operation.

Pull the détente pin and move the lever to the OFF position. Re-engage the Block & Vent valve (if installed) and restore the air supply. The valve may now be used for automatic operation.

### COMPONENTS



- Never apply air pressure to the actuator with the operating lever ON. Doing so causes the drive gear to grind against the clutch and cause premature wear and damage.
- Never release the gear operator (cycle the operating lever to the OFF position) with the actuator energized. Doing so can damage the worm gear and drive gear and cause injury.
- Never attempt to cycle the gear operator with the actuator energized. Doing so can damage the worm gear and drive gear.
- When installed on spring return actuator, never release the gear operator when springs are compressed. Doing so could cause damage to equipment or serious injury to user.

### NOTE

- The gear operator travel stops should be set so the valve can be fully opened against the actuator travel stops.
- If using a direct mount solenoid valve for pilot air, the gear operator should be mounted so the operating handle is in a different quadrant than the solenoid valve. Otherwise the solenoid valve may interfere with the operation of the operating lever. Valworx standard installation is the operating lever opposite the air ports.

### ASSEMBLY

Customers supply their own fasteners and adapters if necessary. **Before assembly, ensure the air supply has been shut off and the actuator is de-energized (i.e. bled), and the valve, actuator and gear operator are in the same operating position, (i.e. open or closed).**

Insert shaft coupler inside of the actuator output drive. Mate the gear operator to the actuator using the actuator mounting pad and fasten. Mount valve to valve mounting pad" and fasten. If using a direct mount solenoid valve for pilot air, Valworx recommends installing a Block and Vent valve, part number 529602 (see picture below). Cycle the Block and Vent valve to the ON (blocking) position by pulling knob away from body. Verify the actuator is in a de-energized state.



Block and Vent Valve– Stock #529602- Installed