

## **INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS REMOTE CONTROL DAMPER SERIES: RT-200, RT-250 AND RT-WGA WORM GEAR ASSEMBLY**

### **RECEIPT INSPECTION:**

Check material received against packing list. Claims resulting from factory errors must be made within 2 weeks after receipt of goods.

### **INSTALLATION:**

1. Prior to installing damper in duct, check to make sure blades operate freely with no binding or restriction.
2. Screw or rivet damper to duct. Make sure that fasteners do not interfere with blade operation and that damper is not racked.
3. Adjust worm gear rotation so that set screws will be accessible when in position. Align square shafts so as to catch set screws directly on flats. Set screws are 90° opposed.
4. Slip worm gear assembly over shaft. Tighten (2) set screws onto damper shaft with 1/8" Allen key, then secure to duct or mounting plate. Assembly mounts horizontally or vertically as required for best cable run. Test for free operation by rotating cable. Do not attempt to rotate worm gear by pushing on damper blade.
5. **Support cables as required at all changes in direction and at 3 foot intervals. Use retaining clips furnished. NO DRAPING – cables should be taut or nearly so. 4" minimum turn radius. Clips should be installed with a loose fit to allow cable rotation. The longer the cable and the larger the damper – the more attention should be paid to cable support.**
6. Fasten ceiling / wall cup or other termination to framing. For RT-CCS, RT-CCR, and RT-CCM see instructions provided.
7. **TEST individual damper operation to evaluate cable support scheme prior to ceiling close-up.**
8. Install cover plate after ceiling installation and air system balancing, but prior to painting.

### **OPERATION:**

1. Damper may be adjusted with a quality ¼" nut driver or hex socket wrench. (Thin blade screwdriver if ordered.) Often cable end may be pulled out several inches to ease adjustment.
2. Worm gear has a 20-1 ratio; therefore a 90 degree blade rotation requires five (minimum) complete rotations.
3. Damper will hold set position. Gear design will not allow reverse movement from the damper end.

### **MAINTENANCE:**

Properly installed *ROTO-TWIST*<sup>TM</sup> dampers require no maintenance of any kind.