



INSTRUCTIONS FOR ELKHART “299-20” GIANT PYTHON DUAL HANDWHEEL CONTROLLED MONITOR

(These instructions are to be used in conjunction with the 299-20 assembly drawing)

INSTALLATION:

The riser that this monitor is attached to must be capable of withstanding the reaction force of the nozzles discharge. To determine this force multiply the nozzle reaction force by the distance from the centerline of the vertical swivel joint to the monitor/riser attachment point. A suitable pipe thread sealant should be used for pipe thread inlet connections. Grade 5 or higher fasteners should be used with all flanged inlet connections.

OPERATION:

Turning the upper hand wheel clockwise will lower the monitor discharge and counterclockwise will raise the monitor discharge. Turn the lower hand wheel clockwise to rotate the monitor discharge to the right and counterclockwise to rotate the monitor discharge to the left. The worm gearing will maintain the positioning of the monitor without the need for locks. Both the upper and lower hand wheels will rotate with the monitor.

MAINTENANCE:

1. Monitor should be inspected on a monthly basis.
2. Careful inspection should be conducted after use during emergency operations.
3. Exercise monitor by moving it thru its entire range of motion once a month to assure that monitor is operating properly, preferably with water flowing at the rated volume and pressure.
4. Inspect gearing for proper lubrication. A heavy coating of silicone grease (Dow Corning #4 compound MIL-SC-8660B or equal) should be maintained on gears, especially in corrosive environments or in freezing temperatures.
5. Grease the unit every six months through all grease fittings until all contaminated grease is expelled. Repeat this for the horizontal joint at 90° intervals and for the vertical joint at each end and at the center of its travel. Use good grade waterproof grease. Wipe off expelled grease.
6. Flow test to check nozzle stream performance. If pattern is disrupted, remove nozzle and stream shaper (if provided) and check for debris lodged in nozzle or stream shaper inlet if one is used.
7. During nozzle flow test, inspect monitor swivel joints for leaks
8. Maintain paint as dictated by environmental conditions.
9. See parts drawing on our website for repair parts.

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