



INSTRUCTIONS FOR ELKHART 8294-02 **DUAL HANDWHEEL MONITOR**

INSTALLATION

Ensure that the alignment of the monitor base for the 8294-02 is in the correct position for access to the left/right hand wheel. Attach 4" 150 lb. class ANSI pattern companion flange to water supply pipe. Elkhart Brass recommends using the 81317001 Companion Flange Kit. Attach monitor inlet flange to companion flange on water supply pipe with eight (8) 5/8-11 UNC grade 5 carbon steel or stainless steel bolts, 2-1/2 inches long, with nuts. If a wafer type butterfly valve is installed between the monitor and the companion flange, required bolt length will be 4-1/2 inches. Seal flange joint with gasket, or suitable flange sealant. Most wafer type butterfly valves have seats that serve as flange gaskets, and separate gaskets or sealant is not required. Apply Loctite® #242 to bolt threads, then thread on nuts, and torque to 60-70 ft-lbs uniformly in increments of approximately 20ft-lbs.

Warning: When installing monitor on a raised face companion flange or butterfly valve, it is critical that bolts be tightened uniformly to prevent cocking of the monitor relative to the flange or valve. If the monitor becomes cocked, the monitor cast flange base will fracture and fail when the bolts on the "high" side are tightened.

OPERATION

The left/right hand wheel remains fixed while the up/down hand wheel will rotate with the monitor. Turn the up/down hand wheel clockwise to lower nozzle or counterclockwise to raise nozzle. Turn the left/right hand wheel clockwise to move nozzle left or counterclockwise to move nozzle right. (See drawing 98031010 for possible up/down and left/right travel stop positions.)

MAINTENANCE & INSPECTION

The monitor should be inspected regularly. Careful inspection for damage to the monitor or nozzle is especially important after use in emergency operations. Flow water to check nozzle pattern. If pattern is disrupted, remove nozzle and check for debris lodged between the nozzle stem and body, or in the stream shaper inlet. During nozzle flow test, inspect monitor swivel joints for leaks.

Note: Although grease fittings are provided for the up-down and left-right gear cases, routine greasing should not be necessary. If the monitor is exposed to a high level of radiant heat for a prolonged period, it may be possible for the factory grease to thin and run out of the gear cases. In such an event, fresh grease should be applied.

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