



Installation, Operating and Maintenance Instructions

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Specialists In Liquid Level Indication

Reflex/Transparent Gages No. 86 Series

Jerguson gage valves are simple, rugged instruments engineered and constructed throughout to give you accurate liquid level reading for the life of the vessel. With a complete range of models for any application, from pure water to highly corrosive chemical.

Like any instrument, Jerguson gage valves must be installed, operated and maintained with reasonable care and due regard for the application and environment.

INSPECTION AND DELIVERY

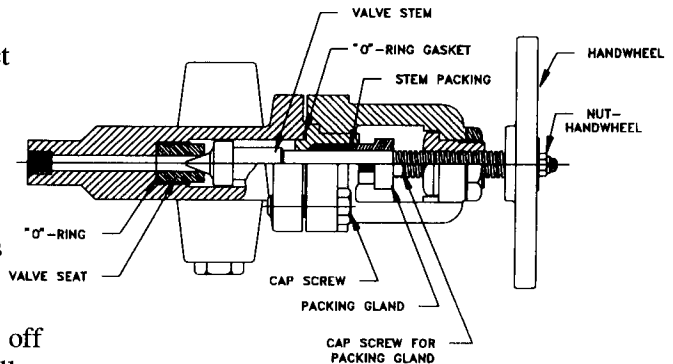
Upon receiving valves, check all components carefully for damage incurred in shipping. Confirm that valve model number and pressure temperature ratings (on nameplate) meet application specifications. Also confirm that the material is compatible with both process fluid and surrounding atmosphere for your application.

CAUTION: Jerguson gage valves are not to be used for gaging lethal substances as defined by ASME Section VIII.

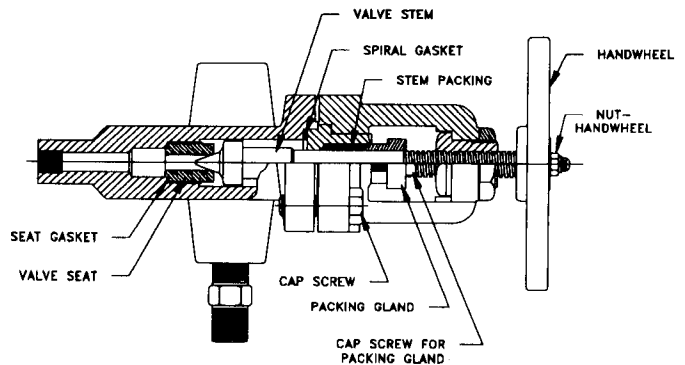
BEFORE YOU INSTALL THE GAGE VALVES

- To avoid imposing piping strains on the valves, connect and mount the valves so that they do not support the piping.
- Support brackets should be considered, if level gage is over four feet in length or over 100 pounds in weight, especially when exposed to vibration. Support brackets will prevent overloading the valves.
- When installing liquid level gages, always provide shut off valves between gage and vessel. Jerguson automatic ball check valves are recommended to help provide protection against physical injury and loss of product if glass breakage should occur.

86HO VALVE SHOWN
 86VO VALVE SAME EXCEPT VERTICAL BALL CHECK



86V VALVE SHOWN
 86H VALVE SAME EXCEPT DRAIN PLUGGED



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OPERATION

CAUTION: Rapid opening of valves can cause glass breakage and/or possible injury to personnel.

For protection during shipments, packing gland is loosened and stem is in the open position. Adjust stem and packing after installation. Do not tighten packing more than enough to stop leakage.

Crack open the valves carefully, and wait until equipment is fully warmed up and/or pressure is equalized before opening valves all the way.

CAUTION: While the valves are in operation, they must be in their fully open position. A partially open valve will prevent automatic ball checks from seating which could result in physical injury to personnel and loss of product.

MAINTENANCE

CAUTION: Prior to any disassembly of valves, first be sure that the valves are relieved of all internal pressure, and temperature is ambient, and has been drained and/or purged of any fluids. Failure to do this may result in a sudden release of pressure and/or physical injury to personnel.

TO REPLACE STEM PACKING

Close valves and drain fluid. Remove yoke assembly, discard spiral gasket (86H & 86V) or O-Ring (86HO & 86VO).

Remove handwheel nut, handwheel and bushing nut. Unscrew cap screws holding packing gland and slide packing gland back on stem. Unscrew valve stem from bushing, slide stem out of yoke assembly. Remove old packing.

Insert valve stem part way in yoke assembly, place packing and packing gland on stem. Screw stem in bushing, replace bushing nut, handwheel and handwheel nut.

Install packing (note – new packing should be installed by seating each ring individually. If seating the complete pack of rings is done simultaneously, the ring nearest the packing gland will be overloaded and the bottom ring may do no sealing whatsoever). Replace packing gland and packing gland cap screws, tighten enough to stop leakage around stem without causing excessive binding on stem during operation.

Reinstall yoke assembly using new spiral gaskets (86H & 86V) or O-Ring (86HO & 86VO).

TO REPLACE VALVE SEAT

Close valve and drain fluid. Remove yoke assembly, discard spiral gasket (86H & 86V) or O-Ring (86HO & 86VO). Using a standard 3/4" socket wrench remove valve seat, discard seat gasket (86H & 86V) or O-Rings (86HO & 86VO).

Before replacing seat assembly apply lubricant (Molykote "G") to seat threads to prevent seizure of metals, replace seat using new gaskets or O-Ring. Tighten well to prevent leakage around seat threads. Reassemble yoke assembly using new spiral gasket (86H & 86V) or O-Ring (86HO & 86VO).



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