JERGUSON®
A Division Of The Clark-Reliance Corporation

Installation, Operating and Maintenance Instructions

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Supercedes: F-7

Specialists In Liquid Level Indication

140, 60 & 90 Series Valves

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.

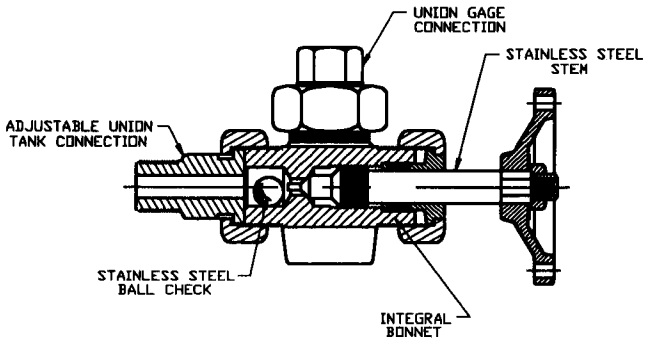
INSPECTION AND DELIVERY

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.



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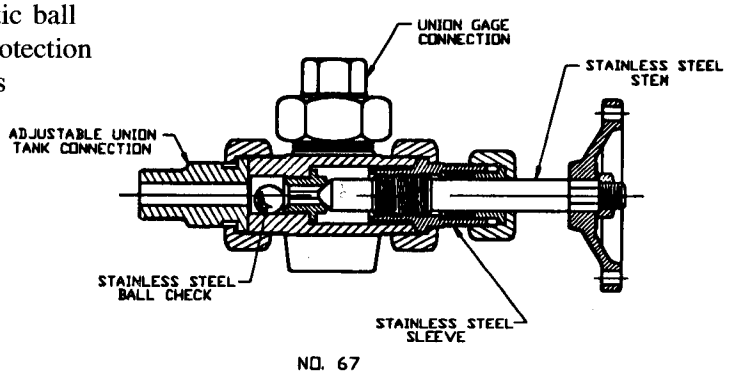

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OPERATION

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.

CAUTION: When gage fails causing ball checks to seat, closing the valve will allow fluid to flow from vessel during that period when pin pushes ball off its seat and before stem has contacted seat, the operator could be hurt if not realizing what is happening or fires could result if hazardous liquids are involved.

TO REPLACE STEM PACKING 140, 60 & 90 Series Valves

Close valves and drain fluid. Disengage packing gland nut and pull packing gland out of stuffing box. Remove old packing and insert new packing. Put the packing gland and packing gland nut into position and tighten the nut. The gland nut should be tightened enough to stop leakage around the stem without causing excessive binding of stem during operation.

TO REPLACE VALVE SEAT 60 & 90 Series Valves

Close valves and drain fluid, disengage sleeve nut from valve body and remove stem, sleeve, sleeve nut, gland, gland nut as a unit from the valve. Using a standard 5/8″ socket wrench remove seat. Before replacing seat apply lubricant (Molykote "G" or equivalent) to the threads to prevent seizure of metals. The seat is then replaced and tightened well to prevent leakage. Replace the stem unit in the valve body and tighten the sleeve nut.

WARNING: During system shut down, it is best to leave shut off valves open, the equipment then cools and depressurizes along with the system. Keeping valves closed during shut down can trap high pressure liquid in the valves.

ISO 9001 REGISTERED

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