



## BALL VALVE WITH PRESS CONNECTIONS INSTRUCTION SHEET

### Introduction

This instruction manual includes preliminary checks, installation, and maintenance information for press ball valves for water service. Please check in advance markings and model number on the valve, and that black EPDM O-rings are inside the press ends.

Webb#	Mfr.#	Description
765848	PRO9322LF-12	1/2"
765850	PRO9322LF-34	3/4"
765845	PRO9322LF-1	1"
765847	PRO9322LF-114	1-1/4"
765846	PRO9322LF-112	1-1/2"
765849	PRO9322LF-2	2"

### **OVERALL WARNING**

Before installation and before performing any maintenance, to avoid personal injury to yourself, fellow workers, or damage to property from release of process fluid, please take the following steps:

- Shut off all operating lines to the valve site
- Isolate the valve site completely from the process
- Release process pressure
- Drain the process fluid from the valve site

### Operating conditions

- Press end ball valves are intended for water in the liquid state, not steam. Temperatures should not exceed 250°F, pressures should not exceed 200 PSI
- Press end ball valves for water service are designed to install on copper pipe in accordance with ASTM B88 type K, L, or M. Soft copper are limited to nominal sizes  $\frac{1}{2}$ " to 1  $\frac{1}{4}$ ", hard copper may be used with nominal sizes  $\frac{1}{2}$ " to 2".

### Preliminary checks

- Before installing the valve, check the body valve and associated equipment for any damage that may have occurred because of the shipping or storage. Specifically, ensure that the O-ring seals in the press ends are present and undamaged and that the interior body is clean.
- Before installing the valve, inspect the installation line making sure the pipe is free of foreign material and the ends are clean and have no burrs or pits that could cause leakage.
- The pipe/valve assembly must be free of tension before and after installation. Neither valve nor copper tubing is to be used as a means of support.
- Concealed valve and copper tubing are to be protected from puncture threats;
- Under no circumstances is the valve or copper tubing to be used as a grounding electrode for electrical systems.
- Inspection, testing, insulation and purging of the installation shall be performed using applicable local codes.
- Have in mind that brass valves are not to be installed at or below ground level.

## Installation

The installation procedure below is applicable to all sizes available for ball valves with Press connections from 1/2" to 2". The images shown for each step refer to a valve size 2" or less.

1. Cut the copper pipe perpendicular to the axis, using a pipe cutter or a fine-toothed saw approved by the producer



2. Deburr tubing on the inside and outside to prevent cutting of the valve's O-ring seals.



3. Check the correct O-ring position and its integrity and cleanliness, and check the grip-ring inside the valve.



4. Mark the full insertion depth of the pipe and mark it – see also table below with the insertion depth value for each size



Size	Insertion depth
1/2"	0.71"
3/4"	0.91"
1"	0.91"
1 1/4"	1.02"
1 1/2"	1.42"
2"	1.57"

5. Insert the tube by applying a slight rotation.



6. Press the valve using a proper tool and following the instruction given by the tool supplier.



After the complete installation and before use, pressure-test the system in accordance with local codes.

Please remember to separate the product and packaging materials (e.g., paper, metal, plastic, non-ferrous metals) and dispose in accordance with all national, state and regional requirements.

### Operation

- Ensure that the valve materials are compatible with the service and that the operating characteristics are below the max. values for the valve.
- Ball valves:
  - Open and close the valve by turning the handle one-quarter turn (90°).
  - The valve is in the open position when the maximum handle length is parallel to the pipe.
  - The valve is in the closed position when the maximum handle length is perpendicular to the pipe.
  - It is recommended that the valve be used in open/close applications, not in mid, or modulating, services

### Maintenance

- Press end valves are not designed for rebuilding, nor is it economical to do so. If over time, the valve leaks, complete replacement is recommended.
- Ball valves, if properly used, do not require internal lubrication or maintenance. However, a visual inspection should be part of a regular maintenance program. A higher frequency of inspection is recommended for valves operating under extreme conditions. Also, for proper operation it is recommended that the valve be opened and closed at least twice a year.
- Before any maintenance, open and close the valve at least once to release the pressure completely from the valve body.
- For stem leaks, use a wrench to turn the packing nut/gland clockwise at quarter-turn intervals until the leak stops. If the packing nut/gland cannot be turned clockwise any further, or if the valve continues to leak, the valve will have to be replaced.

 **WARNING:**  
Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)