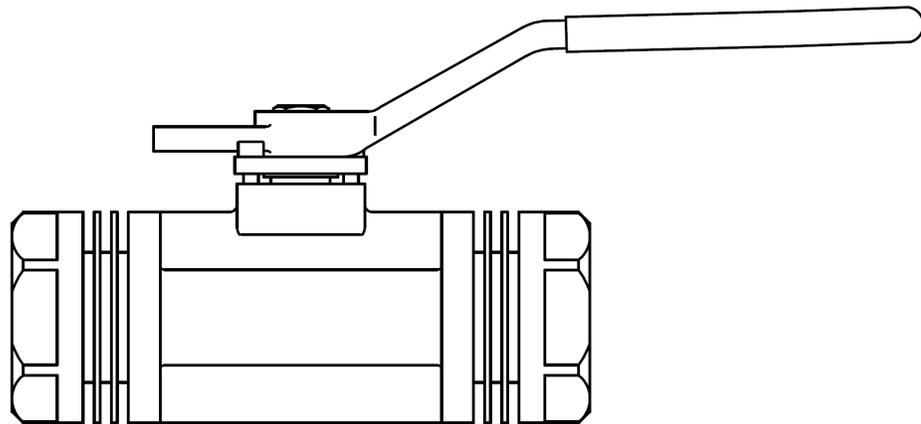




**INSTALLATION, OPERATION, AND
MAINTENANCE MANUAL (IOM)**



**MODEL 3T – 3000psig & 6000psig
FLOATING BALL VALVE**



Introduction

This manual has been prepared as a guide for the installation, operation, and maintenance of the Himark model 3T floating ball valves. Please read carefully and observe the recommendations and guidelines herein provided. Contact your Himark Valve distributor should you have any other questions.

General Product Description

The model 3T valve is on/off quarter-turn floating ball valve constructed in a “three-piece” design with a central body component and 2 end caps threaded into the body. The 3T valves are available as 3000psig and 6000psig in a variety of sizes, refer to the product catalogue for materials of construction, features, and specifications.

Quality Control

All Himark valves are design per ASME B16.34 and manufactured under a registered ISO 9001:2015 Quality Program, the design is registered by ABSA and all valves carry a valid Canadian Registration Number (CRN). Himark Valve Corp. has a registered quality program and retains a Certificate of Authorization Permit (CAP) issued by ABSA.

Installation and Operation

3T valves are virtually maintenance-free and are not inline serviceable or repairable. The end closures are threaded in and tack-welded in place (**repair kits are not available**).

The instructions below are limited to the installation and operation, please read carefully before proceeding with any work.

General:

1. Refer to the valve figure number including the pressure and temperature rating which is stamped into the body of the valve.
2. Valve operating pressure and temperature must be within the pressure/temp range indicated on the valve body.
3. All Himark valves are subject to a hydrostatic shell and seat test at the factory. Refer to the valve Material Test Report (MTR) for the test parameters and results.
4. Refer to the catalogue for the complete bill of materials. Optional valve trims or seat, seal, packing materials are NOT available.
5. Refer to the brochure for temperature/pressure ratings for the various valve seat/seal materials.
6. Floating ball valves (all brands) including Himark 3T ball valves need upstream pressure to seat the downstream ball and to perform as designed. All floating ball valves are classified as bi-directional but need a minimum upstream pressure to seat the downstream seat. A minimum operating pressure of 60psig is recommended. For operating pressures lower than 60psig consider using alternative valve types that do not need upstream pressure to seal.

7. Himark 3T ball valves are fire-tested as per API-607 5th edition.
8. All valves are provided with antistatic stems.
9. All Himark 3T ball valves must be operated within the pressure/temperature ranges as specified on the valve body.
10. Himark 3T ball valves are designed for on-off service. They should not be throttled for extended periods. Instantaneous throttling while opening or closing is not considered as long-term throttling.

Installation:

1. Valves are shipped in the open position. The handle aligns with the body to indicate the ball is in the open position. The valve ends are covered with a protective cover and should be kept in place until the valve is to be installed.
2. Valves must be inspected for signs of damage that may have occurred during transportation. Report any serious damage to your distributor.
3. Valves should be stored in a dry, sheltered place protected from humidity, dust, rain, and other contaminants.
4. Always de-pressure the piping system completely before the removal or installation of the valve and follow end-user safety procedures.
5. Use proper hand tools to install the valves into the piping system.
6. Valves are provided with a taper female NPT connection as per ASME B1.20.1 or a socket weld connection as per ASME B16.11.
7. Valves are supplied with a preloaded adjustable packing gland flange. The gland flange is installed per the manufacturer's specifications. Ensure that the gland flange is flat, and the cap screws are evenly tightened. Adjust the packing bolts in increments in case of a stem leakage.
8. Valves should ALWAYS be installed/removed from the piping system using a wrench on the end caps to remove the valve. Do not install/remove the valve by wrenching the main valve body only into or out of the piping system.
9. Valves should only be installed in the fully open position. Damage to internal components may occur if installed in the closed position, particularly for a socket weld installation.
10. Do not remove the handle for installation.
11. Ensure the line is cleaned and flushed before installing/removing the valve.
12. Make sure the line is depressurized before removing the valve. Operate to half-open to release pressure trapped in the body cavity.
13. Himark 3T ball valves are "bi-directional" and can be installed with process flow on either end. Like all floating ball valves, however, these valves seat to the downstream side.
14. "Dead ending" hydrotest must be limited to 3300psig for the 3000psig ball valves and 6600psig for the 6000psig ball valves. These pressures are specified in ASME B16.34. Higher pressures will damage the seats and void the warranty.

Installation – Socket-welding Ends

1. All valves when supplied as socket welded body, do NOT require disassembly. Disassembly of any kind will void the warranty and is strongly not recommended!
2. Welding must follow a suitable WPS/PQR.
3. Himark 3T ball valves are supplied using A350-LF2 Class 1 material for the end caps and these materials meet the CE restrictions of most end users for a socket weld application. Weld procedures using compatible weld fillers should be used. Avoid using large filler passes when socket welding.
4. Valves must not be PWHT or disassembled for PWHT. Damage to the valve will occur with any temperature over +400F operation.
5. Warranty is void if the valve is disassembled, modified, or heat treated.

Actuation:

1. Himark 3T floating ball valves are manufactured using a body geometry that is common to this type of valve and as such the top works of our Himark 3T ball valves may be compatible with many existing linkage kits. This valve is not compatible with ISO topworks dimensions.
2. Valve handles must be removed for actuation. In some cases, the valve gland flange must also be removed. Refer to the catalogue and brochure BOM for details.
3. Normally direct mounting to the valve from the actuator is not possible. A linkage kit and mounting hardware package are required.
4. Valve actuation companies have successfully provided mounting hardware and actuators to these style valves for many years and most actuation companies are familiar with these valves.
5. Contact Himark Valve Corp for top works dimensional information and torque data.

Warranty

Valves are warranted for 12 months after the original installation or 18 months from the invoice for workmanship deficiencies only. Valves must be returned to Himark Valve Corp via the Master Distributor accompanied by a Return Authorization (RMA). The valve will be evaluated and if deemed faulty the customer will be issued a credit or a new valve. All non-warranty damage will be charged to the customer. All valves must be returned in the half-open position.