

Jamesbury flanged ball valves for hydrogen peroxide service with up-stream vent hole in ball type P1 & P2

Installation, maintenance and
operating instructions



Table of contents

GENERAL	3
Safety precautions	3
INSTALLATION	3
DISASSEMBLY, ASSEMBLY AND MAINTENANCE	4
SERVICE / SPARE PART	4

READ THESE INSTRUCTIONS FIRST!

These instructions provide information about safe handling and operation of the valve.

If you require additional assistance, please contact the manufacturer or manufacturer's representative.

SAVE THESE INSTRUCTIONS!

Addresses and phone numbers are printed on the back cover.

1. GENERAL

This instruction manual contains important information regarding the installation, operation and troubleshooting of the Jamesbury™ P1 & P2 Flanged Ball Valves with Up-Stream Vent Hole in Ball for Hydrogen Peroxide Service. Please read these instructions carefully and save them for future reference.

These valves are designed to prevent hydrogen peroxide entrapment and decomposition which could cause explosive pressure build-up. Each valve is factory cleaned to remove dirt or fluid that might react with the media, and only compatible lubricants are used during manufacture.

Hydrogen peroxide valves must be passivated before use. *Jamesbury* Flanged Ball Valves for Hydrogen Peroxide Service are available as passivated and also not passivated. P1 Valves are passivated and P2 Valves are not passivated.

WARNING:

AS THE USE OF THE VALVE IS APPLICATION SPECIFIC, A NUMBER OF FACTORS SHOULD BE TAKEN INTO ACCOUNT WHEN SELECTING A VALVE FOR A GIVEN APPLICATION. THEREFORE, SOME OF THE SITUATIONS IN WHICH THE VALVES ARE USED ARE OUTSIDE THE SCOPE OF THIS MANUAL. IF YOU HAVE ANY QUESTIONS CONCERNING THE USE, APPLICATION OR COMPATIBILITY OF THE VALVE WITH THE INTENDED SERVICE, CONTACT VALMET FOR MORE INFORMATION.

1.1 SAFETY PRECAUTIONS

WARNING:

DO NOT EXCEED THE VALVE PERFORMANCE LIMITATIONS!

EXCEEDING THE PRESSURE OR TEMPERATURE LIMITATIONS MARKED ON THE VALVE IDENTIFICATION PLATE MAY CAUSE DAMAGE AND LEAD TO UNCONTROLLED PRESSURE RELEASE, DAMAGE OR PERSONAL INJURY MAY RESULT.

WARNING:

SEAT AND BODY RATINGS!

THE PRACTICAL AND SAFE USE OF THIS PRODUCT IS DETERMINED BY BOTH THE SEAT AND BODY RATINGS. READ THE IDENTIFICATION PLATE AND CHECK BOTH RATINGS. THIS PRODUCT IS AVAILABLE WITH A VARIETY OF SEAT MATERIALS. SOME OF THE SEAT MATERIALS HAVE PRESSURE RATINGS THAT ARE LESS THAN THE BODY RATINGS. ALL OF THE BODY AND SEAT RATINGS ARE DEPENDENT ON VALVE TYPE AND SIZE, SEAT MATERIAL, AND TEMPERATURE. DO NOT EXCEED THESE RATINGS!

WARNING:

BEWARE OF BALL MOVEMENT!

KEEP HANDS, OTHER PARTS OF THE BODY, TOOLS AND OTHER OBJECTS OUT OF THE OPEN FLOW PORT. LEAVE NO FOREIGN OBJECTS INSIDE THE PIPELINE. WHEN THE VALVE IS ACTUATED, THE BALL FUNCTIONS AS A CUTTING DEVICE. DISCONNECT ANY PNEUMATIC SUPPLY LINES, ANY ELECTRICAL POWER SOURCES AND MAKE SURE SPRINGS IN SPRINGRETURN ACTUATORS ARE IN THE FULL EXTENDED/RELAXED STATE BEFORE PERFORMING ANY VALVE MAINTENANCE. FAILURE TO DO THIS MAY RESULT IN DAMAGE OR PERSONAL INJURY!

WARNING:

WHEN HANDLING THE VALVE OR VALVE/ACTUATOR ASSEMBLY, TAKE ITS WEIGHT INTO ACCOUNT!

REFERENCE THE APPLICABLE TECHNICAL BULLETIN FOR VALVE WEIGHTS.

NEVER LIFT THE VALVE OR VALVE/ACTUATOR ASSEMBLY BY THE ACTUATOR, POSITIONER, LIMIT SWITCH OR THEIR PIPING. PLACE LIFTING DEVICES SECURELY AROUND THE VALVE BODY. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE OR PERSONAL INJURY FROM FALLING PARTS (SEE FIGURE 2).

2. INSTALLATION

1. Before installation of any valve into a pipeline, factory attached tags should be checked to assure that the valve is identified as having been processed for hydrogen peroxide service and that the valve type and material conform to the requirements of the service intended. **P2 VALVES MUST BE PASSIVATED BEFORE INSTALLATION.**
2. Standard piping practices should be followed during valve installation. Flanged valve bolts must be tightened to recommendations given by the manufacturer of the particular type of gaskets being used.

3. Flanged hydrogen peroxide valves must be installed with the body insert facing upstream. With the valve in the closed position with the handle or actuator mounted, check the orientation of the ball and flow arrow. Compare with **(Figure 1)**. Correct any misorientation by removing the handle or actuator, rotating the ball 180° and reinstalling the handle or actuator.

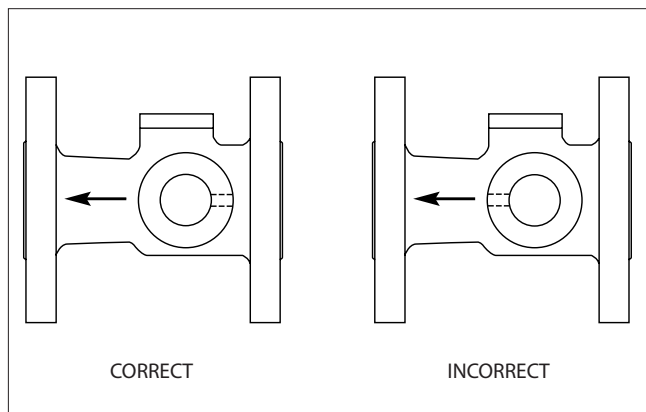


Figure 1.

3. DISASSEMBLY, ASSEMBLY AND MAINTENANCE

Basic disassembly, assembly, and maintenance procedures and precautions are the same as those given in the standard installation, maintenance, and operating instructions (IMO's) for the particular size of valve ordered. Standard IMO's are:

TABLE 1		
1/2" - 2" (DN 15 – 50)	Series 5150	IMO-50
3" - 6" (DN 80 – 150)	Series 7150	IMO-299

Subject to change without prior notice.

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WARNING:

FOR YOUR SAFETY, IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS BE TAKEN PRIOR TO THE REMOVAL OF THE VALVE FROM THE LINE OR BEFORE ANY DISASSEMBLY.

1. WEAR ANY PROTECTIVE EQUIPMENT NORMALLY REQUIRED WHEN WORKING WITH THE FLUID INVOLVED DURING REMOVAL AND DISASSEMBLY TO PROTECT AGAINST ANY RELEASE OF TRAPPED HYDROGEN PEROXIDE.
2. DEPRESSURIZE THE LINE AND VALVE AS FOLLOWS:
 - A. SHUT OFF THE VALVE AND BLEED THE LINE.
 - B. CYCLE THE VALVE TO RELIEVE RESIDUAL PRESSURE BEFORE REMOVAL FROM THE LINE.
 - C. AFTER REMOVAL CYCLE THE VALVE AGAIN SEVERAL TIMES.

4. SERVICE / SPARE PART

We recommend that valves be directed to our service centers for maintenance. The service centers are equipped to provide rapid turn-around at a reasonable cost and offer new valve warranty with all reconditioned valves.

NOTE: When sending goods to the service center for repair, do not disassemble them. Clean the valve carefully and flush the valve internals. Include the material safety datasheet(s) (MSDS) for all media flowing through the valve. Valves sent to the service center without MSDS datasheet(s) will not be accepted. Send valves to the service center in the half open position.

For further information on spare parts and service or assistance visit our web-site at www.valmet.com/flowcontrol/valves.

NOTE: When ordering spare parts, always include the following information:

- a. Valve catalog code from identification plate,
- b. If the valve is serialized – the serial number (from identification plate)
- c. From exploded view, the ballooned part number, part name and quantity required

