

NELES

Ball valves for hydrogen peroxide service type P515

Installation, maintenance and
operating instructions



TABLE OF CONTENTS

1. GENERAL 3

2. DESCRIPTION 3

3. INSTALLATION 3

 3.1 Disassembly, Assembly & Maintenance..... 4

4. SPECIAL ASSEMBLY REQUIREMENTS 4

5. 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® Type P515 Ball Valves for Hydrogen Peroxide Service. Please read these instructions carefully and save them for future reference.

WARNING:

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

1. TYPE P515 HYDROGEN PEROXIDE VALVES REQUIRE A PRESSURE RELIEF VALVE FITTED TO THE TAPPED HOLE IN THE UNDERSIDE OF THE VALVE BODY. DO NOT PLUG THE HOLE OR OPERATE THE VALVE WITHOUT THE REQUIRED PRESSURE RELIEF VALVE.
2. WEAR ANY PROTECTIVE EQUIPMENT NORMALLY REQUIRED WHEN WORKING WITH THE FLUID INVOLVED DURING REMOVAL AND DISASSEMBLY TO PROTECT AGAINST ANY SPRAY OR TRAPPED HYDROGEN PEROXIDE.
3. DEPRESSURIZE THE LINE AND VALVE AS FOLLOWS:
 - A. SHUT OFF THE VALVE AND BLEED THE LINE.
 - B. CYCLE THE VALVE TO RELIEVE RESIDUAL PRESSURE IN BALL CAVITY BEFORE REMOVAL FROM THE LINE.
 - C. AFTER REMOVAL CYCLE THE VALVE AGAIN SEVERAL TIMES.

2. DESCRIPTION

Jamesbury valves carrying the designation P515 are designed for hydrogen peroxide service. These flanged valves are available either in all stainless steel or in aluminum with stainless steel ball and stem. Material grades are in accordance with FMC recommendations, Bulletin 104.

These valves are designed to prevent hydrogen peroxide entrapment and decomposition which could cause explosive pressure build-up. All wetted surfaces are completely machined, venting ports are included to prevent media entrapment in the body, and the body is tapped to mount a pressure relief valve. Each valve is cleaned to remove dirt or fluid that might react with the media, and only compatible lubricants are used during manufacture.

NOTE: Hydrogen peroxide valves must be passivated before use. Valves are not passivated before shipment.

3. INSTALLATION

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 requirements of the service intended. **THE VALVE MUST BE PASSIVATED BEFORE INSTALLATION.**

3.1 Disassembly, Assembly & Maintenance

Basic disassembly, assembly, and maintenance procedure 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. These are:

TABLE 1		
1/2" – 2" (DN 15 – 50)	Type P515	IMO-50
3" – 4" (DN 80 – 100)	Type P515	IMO-59

4. SPECIAL ASSEMBLY REQUIREMENTS

1. All valve components must be scrubbed clean of any dirt, oils, and other foreign material prior to assembly. Since hydrogen peroxide is a highly reactive fluid, the cleaning agents must be chosen carefully. For this information, consult the hydrogen peroxide supplier.
2. Valves must be reassembled in a clean area using hydrogen peroxide compatible lubricants. Lubrication should be used only to aid assembly of parts. Very light applications may be used on seals and threaded mating parts. An acceptable lubricant is Halocarbon® 25-10M
3. Passivate the valve prior to use. **CAUTION** must be exercised when making threaded aluminum joints since aluminum is prone to galling. Threads should be inspected prior to assembly, any feathered or rough edges smoothed, and threads lightly lubricated.

5. 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.

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

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