

Jamesbury™ flanged ball valves for BASF series 5000, 6000, 7000 & 9000

Series 5000 & 7000, Standard Bore, Class 150 & 300,
1/2" - 8" (DN 15 - 200);

Series 6000 & 9000, Full Bore, Class 150 & 300, 3/4" - 6"
(DN 20 - 150)

Installation, maintenance and
operating instructions

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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, maintenance and troubleshooting of the Jamesbury™ 1/2" – 8" (DN 15 – 200) Standard Bore 3/4" – 6" (DN 20 – 150) Full Bore Class 150 and 300 Series 5000, 6000, 7000 and 9000 Flanged Ball Valves for BASF. Please read these instructions carefully and save them for future reference.

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.

2. INSTALLATION

Flow through these *Jamesbury* valves can be in either direction. It is recommended, however, that the following valves listed below be installed with the insert facing upstream:

1/2" – 2" (DN 25 – 50) Series 5000

3/4" – 1-1/2" (DN 20 – 40) Series 6000

3" – 6" (DN 80 – 150) Series 7000

WARNING:

THE VALVE SHOULD BE TIGHTENED BETWEEN FLANGES USING APPROPRIATE GASKETS AND FASTENERS COMPATIBLE WITH THE APPLICATION, AND IN COMPLIANCE WITH APPLICABLE PIPING CODES AND STANDARDS. CENTER THE FLANGE GASKETS CAREFULLY WHEN FITTING THE VALVE BETWEEN FLANGES. DO NOT ATTEMPT TO CORRECT PIPELINE MISALIGNMENT BY MEANS OF FLANGE BOLTING!

2.1 ASSEMBLY AND DISASSEMBLY

Basic assembly and disassembly procedures are the same as those given in the standard installation, maintenance and operating instructions (IMOs) for the particular size and style of valve ordered. (See Table 1 for the applicable IMO.)

TABLE 1 – IMOS*	
Valve Size	IMO
1/2" – 2" (DN 15 – 50) Series 5000	IMO-50
3/4" – 1-1/2" (DN 20 – 40) Series 6000	IMO-50
3" – 6" (DN 80 – 150) Series 7000	IMO-299
2" – 4" (DN 50 – 100) Series 9000	IMO-270
8" (DN 200) 7150 and 6" (DN 150) 9150	IMO-270
8" (DN 200) 730S/7300 and 6" (DN 150) 9300	IMO-271

* **NOTE:** The above Table is for assembly and disassembly reference only. Use (Table 2) for Repair Kits information.

3. MAINTENANCE

Although *Jamesbury* valves are designed to work under severe conditions, proper preventative maintenance can significantly help to prevent unplanned downtime and in real terms reduce the total cost of ownership. Valmet recommends inspecting valves at least every five (5) years. The inspection and maintenance frequency depends on the actual application and process condition.

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. WEAR PROTECTIVE CLOTHING OR EQUIPMENT NORMALLY REQUIRED WHEN WORKING WITH THE FLUID INVOLVED.
2. DEPRESSURIZE THE LINE AND CYCLE THE VALVE AS FOLLOWS:
 - A. PLACE THE VALVE IN THE OPEN POSITION AND DRAIN THE LINE.
 - B. CYCLE THE VALVE TO RELIEVE RESIDUAL PRESSURE IN THE BODY CAVITY BEFORE REMOVAL FROM THE LINE.
 - C. AFTER REMOVAL AND BEFORE ANY DISASSEMBLY, CYCLE THE VALVE AGAIN SEVERAL TIMES.

Overhaul maintenance consists of replacing seats and seals. A standard repair kit consisting of these parts may be obtained through your Valmet Distributor. See (Table 2) for the applicable repair kit.

4. REPAIR KITS/SPARE PARTS

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 Figure 1, the ballooned part number, part name and quantity required.

TABLE 2 – REPAIR KITS									
Valve Size		5150	5300, 530S	6150	6300	7150	7300, 730S	9150	9300
Inches	DN								
1/2"	15	RKN041MT	RKN202BS	N/A	N/A	N/A	N/A	N/A	N/A
3/4"	20	RKN042MT	RKN203BS	RKN043MT	RKN204BS	N/A	N/A	N/A	N/A
1"	25	RKN043MT	RKN204BS	RKN044MT	RKN207BS	N/A	N/A	N/A	N/A
1-1/2"	40	RKN045MT	RKN205BS	RKN206BS	RKN206BS	N/A	N/A	N/A	N/A
2"	50	RKN046MT	RKN206BS	N/A	N/A	N/A	N/A		
3"	80	N/A	N/A	N/A	N/A				
4"	100	N/A	N/A	N/A	N/A				
6"	150	N/A	N/A	N/A	N/A				
8"	200	N/A	N/A	N/A	N/A			N/A	N/A

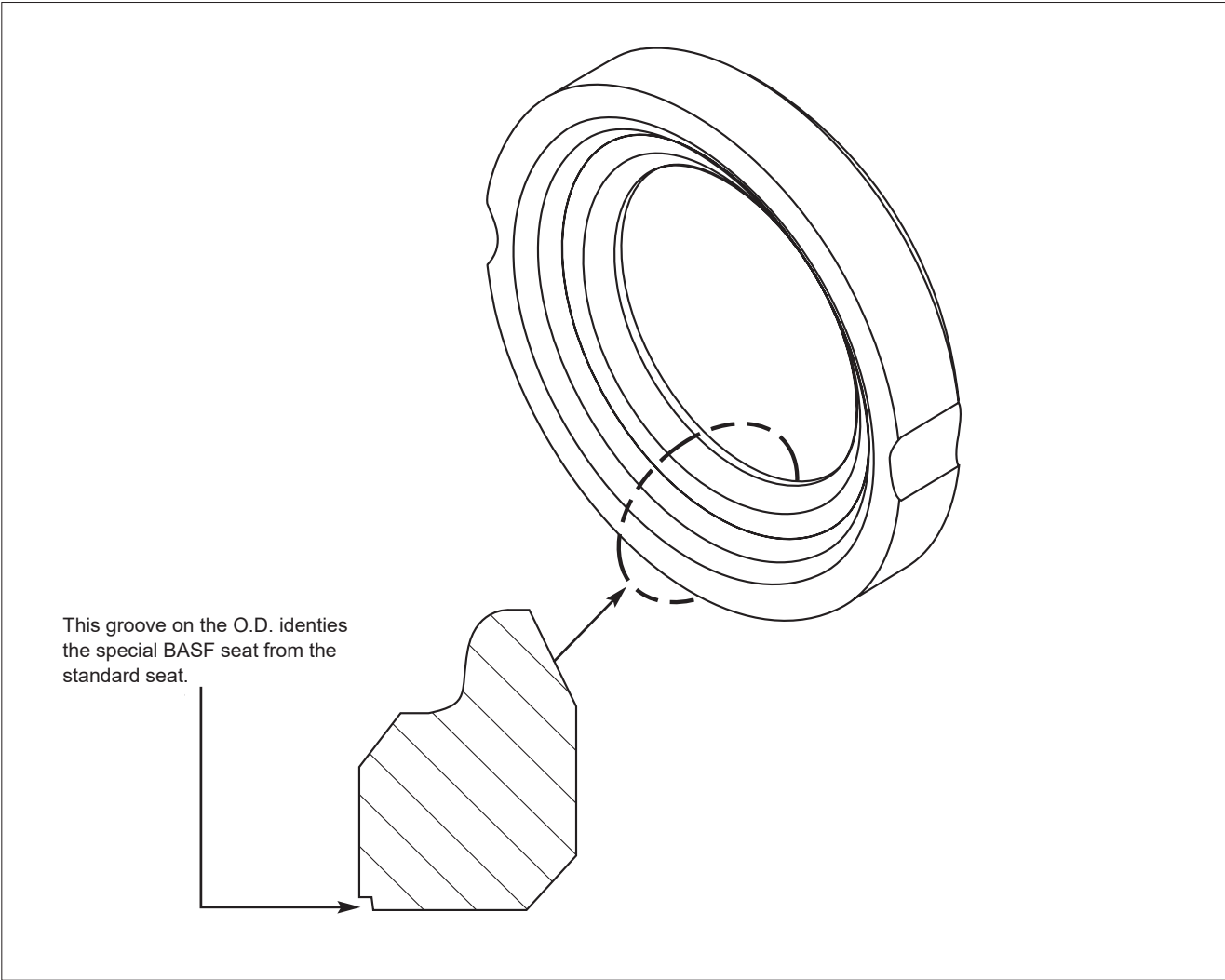


Figure 1.

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