

Jamesbury™ trunnion flanged ball valves

Series 7000 & 9000

Series 7000, Model A, Standard Bore,
Class 150 & 300, 12" - 20" (DN 300 - 500)
730S 12" (DN 300);

Series 9000, Model A, Full Bore,
Class 150 & 300, 14" - 24" (DN 350 - 600)

Installation, maintenance and
operating instructions

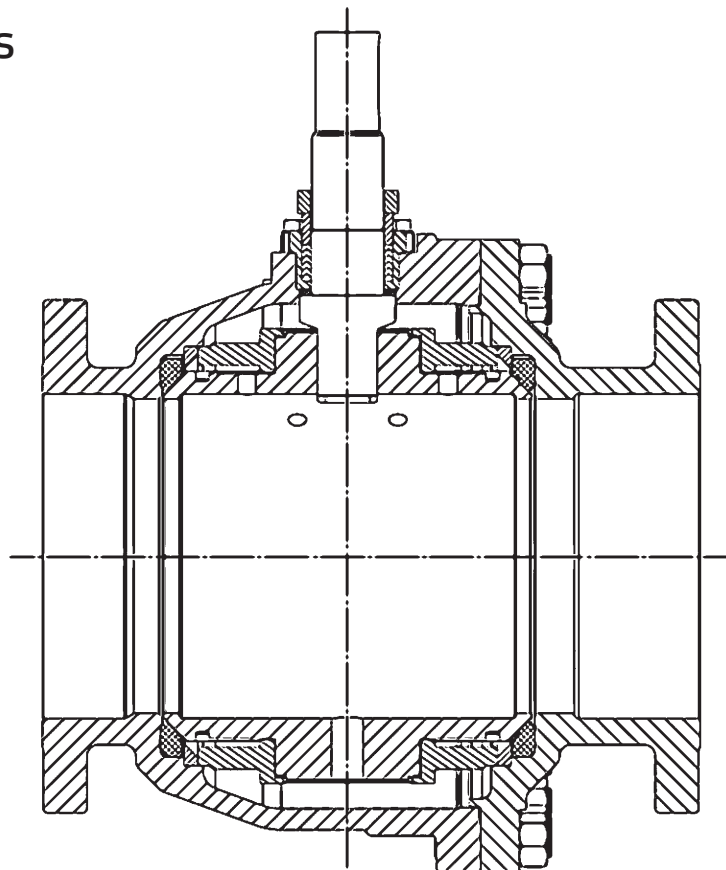


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READ THESE INSTRUCTIONS FIRST!

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* Trunnion-Design Ball Valves. 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 (**SEE FIGURE 2**).

2. INSTALLATION

1. Place the valve in the open position
2. Valve may be installed in either flow direction. However, it is recommended that the valve be installed with the insert facing upstream.

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!

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.

Routine maintenance consists of tightening the bonnet stud nuts (18) periodically to compensate for the wear caused by the stem turning in the resilient stem seals.

WARNING

FOR YOUR SAFETY AND PROTECTION, IT IS IMPORTANT THAT THE FOLLOWING PRECAUTIONS BE TAKEN PRIOR TO REMOVING THE VALVE FROM SERVICE OR BEFORE ANY DISASSEMBLY OF THE VALVE:

3. WEAR ANY PROTECTIVE CLOTHING OR EQUIPMENT NORMALLY REQUIRED WHEN WORKING WITH THE MEDIA INVOLVED.
4. DEPRESSURIZE THE LINE AND VALVE AS FOLLOWS:
 - A. OPEN THE VALVE AND DRAIN THE LINE.
 - B. CLOSE AND OPEN THE VALVE TO RELIEVE ANY RESIDUAL PRESSURE THAT MAY BE IN THE VALVE PRIOR TO REMOVING THE VALVE FROM SERVICE. LEAVE THE VALVE IN THE OPEN POSITION.
 - C. AFTER REMOVAL AND PRIOR TO ANY DISASSEMBLY, DRAIN ANY REMAINING MEDIA BY PLACING THE VALVE IN THE VERTICAL POSITION AND CAREFULLY OPENING AND CLOSING THE VALVE SEVERAL TIMES.

NOTE: WHEN AN ACTUATOR IS REMOUNTED ON THE VALVE, IT MAY BE NECESSARY TO READJUST ACTUATOR TRAVEL STOPS TO ENSURE PROPERLY SETTING THE BALL IN THE OPEN AND CLOSED POSITIONS.

Standard Repair kits include T or M seats as specified, stem seals, and a 316 stainless steel/PTFE spiral wound body seal (see **Table 1**).

Table 1 – Repair Kits*		
Valve Size	Series	Repair Kit
12" (DN 300)	7150	RKN-57
12" (DN 300)	7300	RKN-58
12" (DN 300)	730S	RKN-58
12" (DN 300)	9150	RKN-59
12" (DN 300)	9300	RKN-60
14" (DN 350)	7150	RKN-57
14" (DN 350)	7300	RKN-58
14" (DN 350)	9150	RKN-74
14" (DN 350)	9300	RKN-53
16" (DN 400)	7150	RKN-59
16" (DN 400)	7300	RKN-60
16" (DN 400)	9150	RKN-62
16" (DN 400)	9300	RKN-65
18" (DN 450)	7150	RKN-74
18" (DN 450)	7300	RKN-53
18" (DN 450)	9150	RKN-93
18" (DN 450)	9300	RKN-86
20" (DN 500)	7150	RKN-62
20" (DN 500)	7300	RKN-65
20" (DN 500)	9150	RKN-73
20" (DN 500)	7300	RKN-94
24" (DN 600)	9150	RKN-136
24" (DN 600)	9300	RKN-136

*For grounded valves, grounding washers listed below are also needed when ordering. (One per valve)

Size						
Series	12"	14"	16"	18"	20"	24"
7150	004 1361 60	004 1361 60	004 1363 60	004 1364 60	004 1364 60	-
7300	004 1364 60	004 1364 60	004 1048 60	004 1048 60	004 1048 60	-
9150	-	004 1364 60	004 1364 60	004 1048 60	004 1048 60	004 1362 60
9300	-	004 1048 60	004 1048 60	004 1362 60	004 1362 60	004 1362 60

3.1 DISASSEMBLY

NOTE: If complete disassembly becomes necessary, replacement of all seats and seals is recommended. Refer to the list of repair kits, (**Table 1**).

1. Comply fully with the steps in the **WARNING** Sections prior to working on the valve.
2. When performing any work on this valve, use normal safety precautions to protect yourself against any residual fluid or trapped pressure in the line.
3. Depressurize and drain the line. Cycle the valve several times before doing any work. This will relieve any pressure still inside the valve.
4. Remove the valve from the line, (note that in the following valves, the ball protrudes beyond the flange: 12" and 16" [DN 300 and 600] Series 7150 and 12" [DN 300] 7300 & 730S). Cycle the valve several more times.
5. Place the valve in a vertical position with the body cap (2) facing upward and the ball in the closed position. Refer to the exploded view (**Figure 1**) for part number identification.
6. Remove the bonnet stud nuts (18), drive key (33), compression plate (10), compression ring (11) (if fitted), and four hex head cap screws (35).
7. Remove the stem (5) and the stem retainer (8) as a subassembly. It may be necessary to loosen with a block of wood and hammer.
8. Push down on top of stem (5) to remove it from the stem retainer (8).
9. Remove secondary stem seal (71) and stem bearing (70) from stem. Pry out and discard the upper stem seal set (69) from the stem retainer (8), being careful not to scratch any sealing surfaces.
10. Remove and discard the stem retainer seal (66) from the body.
11. Remove the body nuts (16) and the body cap (2).
12. Remove the body seal (65) and body cap seat (7). It may be necessary to pry the seat from the cap. Do not scratch sealing surfaces.
13. Remove the ring (90) nearest the body cap before removing the ball. Remove the ball (3) and trunnion plates (89) as a subassembly. (The subassembly consists of the ball with a trunnion plate on both ends with their appropriate bearings and spacers.)
14. Pull each trunnion plate away from the ball and remove the bearing spacer (91). Trunnion bearings (92) and spacers (91) are not included in repair kits. Remove the remaining trunnion ring (90) from the body.
15. Remove the body seat (7).

3.2 ASSEMBLY

NOTE:

LUBRICATE SEATS, SEALS, AND BEARINGS WITH A LUBRICANT COMPATIBLE WITH THE MEDIA.

1. Place the body (1) in a vertical position with the body cap (2) end facing upward. Assemble a seat (7) in the body with the flat surface of the seat against the body (**see exploded view in Figure 1**). Place a trunnion ring (90) on the seat and into the machined diameter in the body. For 12" and 14" (DN 300 and 350) 7000 align the ring with clearance grooves in the 6:00 and 12:00 position with the stem considered at 12:00.
2. Place a bearing spacer (91) over each ball trunnion.
3. If fitting new trunnion bearings, insert trunnion bearing (92) into each trunnion plate (89) counter bore.
4. Fit a trunnion plate over each ball trunnion until the plate rests against the bearing spacer (91). This operation must be performed with care and without excessive force, or the bearings may be damaged. The plate should be started squarely on the trunnion and evenly tapped with a plastic mallet. With new bearings it may be necessary to tap and rotate the plate all the way on. Lubrication is helpful. Once installed, without cocking, the plate will be snug but can be smoothly rotated with a mallet or block of wood.
5. Align trunnion plates (89) relative to ball port as shown in (**Figure 1**). This will approximate proper position when the ball and trunnion plate subassembly is lowered into the body.
6. Lower the ball/trunnion plate subassembly partially into the body. **NOTE:** For 12" and 14" (DN 300 and 350) 7000 this procedure is critical, and careful attention must be paid to the trunnion plate pilot projection. These projections must properly engage inside the corresponding trunnion ring (90) in the body. Carefully lower the subassembly into the body and guide the trunnion plates (89) for proper seating. When seated, place the second trunnion ring (90) over the trunnion plate machined diameters.
7. Slide the stem bearing (70) over the top of the stem (5) and down to the stem shoulder. Place a secondary stem seal (71) over the stem and down on top of the stem bearing (70).
8. Slide the stem retainer (8) over the stem and down the top of the secondary stem seal (71).
9. Slide the upper stem seal set (69) over the stem and down into the stem retainer. ("V" shape of stem seals must point away from the ball (**see Figure 1**)).
10. Slide the compression ring (11) and/or the compression plate (10) over the stem and down to the upper stem seal set (69) in the stem retainer (8). Add the indicator plate as applicable.
11. Place the stem retainer seal (66) in the bonnet groove of the body (1).
12. Slide the stem (5) into the stem bore of the body (1) and engage the ball (3).
13. Align stem retainer (8) flange holes with tapped holes in bonnet. Lubricate the cap screws with Never-Seez® or equivalent. Place the four hex head cap screws (35) through the stem retainer flange and thread into the body (1). Tighten per (**Table 2 and Figure 2**). Install the key on key drive stems per (**Figure 1**).
14. Place the two hex nuts (18) on the gland studs (14), and thread down until contact is made with the compression plate (10).
15. Place the body seal (65) in the body groove.
16. Assemble a seat (7) in the body cap (2) with the flat surface of the seat against the body cap (**see Figure 1**). If the seat fits loosely in the cap, apply lubricant to the underside to hold it in position. **NOTE:** The ball must be closed before proceeding to Step 17. Do not install body cap (2) with the ball in any other position.
17. Lower the body cap with seat onto the body. Due to seat and seal compression, there may be a 1/8" – 1/4" (3.2 mm – 6.35 mm) gap at the joint when the faces are parallel.
18. Using Never-Seez® or equivalent, lubricate the threads and underside face of each body fastener (12). Tighten the body hex nuts (16) with sequence and torque per (**Table 2 and Figure 2**). For identification of size, compare the fastener to (**Figure 3**).
19. Tighten the two hex nuts (18) evenly until the stem seal set is fully seated, then tighten the nuts an additional 1/8 to 1/4 turn. Pull on the stem (5) while tightening to assure that the stem bearings are always in contact with the stem retainer.
20. If there is weepage past the packing upon installation, "leak-tight" performance may be restored by a packing adjustment described in the **MAINTENANCE** Section.
21. A. Valve Open Position: Allowable misalignment of the ball port, in relation to the body port should not exceed 1/16" (1.6 mm).
B. Valve Closed Position: Scribe a pencil mark on the ball as shown in (**Figure 4**). Open the valve and measure Dimension "B" (**see Table 3**). Allowable deviation from the values in (**Table 3**) is $\pm 1/16"$ (± 1.6 mm).

3.3 TESTING THE VALVE

WARNING:

WHEN PRESSURE TESTING, EXERCISE CAUTION AND MAKE SURE ALL EQUIPMENT USED IS IN GOOD WORKING CONDITION AND APPROPRIATE FOR THE INTENDED PRESSURE.

If the valve is to be tested prior to returning to service make sure the test pressures are in accordance with an applicable standard.

When testing the valve for external tightness, keep the ball in the half open position.

If testing the valve seat tightness, please contact Valmet for advice.

WARNING:

WHEN PERFORMING ANY TESTS, NEVER EXCEED THE MAXIMUM OPERATING PRESSURE OR MAXIMUM SHUT-OFF PRESSURE LISTED ON THE IDENTIFICATION PLATE!

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:

- Valve catalog code from identification plate,
- If the valve is serialized – the serial number (from identification plate).
- From **Figure 1**, the ballooned part number, part name and quantity required.

Table 2 – Fastener Torques

Fastener Size		Last Digit In Figure Number	1		2		4		5	
		Fastener Material	A193 GR.B7		A193 GR.B8		K Monel		A193 GR. B7M	
		Fastener Identification Mark	B7		B8		K Monel		B7M	
Inches	DN		FT•LBS	N•m	FT•LBS	N•m	FT•LBS	N•m	FT•LBS	N•m
1/2	12.7		75 – 85	102 – 115	70 – 85	90 – 115	65 – 75	88 – 102	55 – 65	75 – 88
9/16	14.3		100 – 115	149 – 156	95 – 100	129 – 149	85 – 100	115 – 136	75 – 90	102 – 122
5/8	15.9		160 – 190	217 – 258	155 – 180	210 – 244	140 – 160	190 – 217	125 – 145	170 – 197
3/4	19.15		250 – 290	339 – 393	235 – 275	319 – 373	210 – 245	285 – 332	190 – 220	258 – 298
7/8	22.22		380 – 445	515 – 603	290 – 340	393 – 461	325 – 380	441 – 515	290 – 340	393 – 461
1	25.4		575 – 630	780 – 854	435 – 510	590 – 692	495 – 540	671 – 732	435 – 510	590 – 692
1-1/8	28.58		850 – 1000	1153 – 1356	526 – 615	713 – 834	690 – 805	936 – 1092	650 – 760	881 – 1031
1-1/4	31.75		1160 – 1360	1573 – 1844	715 – 840	970 – 1139	940 – 1100	1275 – 1492	885 – 1030	1200 – 1397
1-3/8	34.9		1625 – 1900	2203 – 2576	770 – 900	1044 – 1220	1310 – 1540	1776 – 2088	1240 – 1450	1681 – 1966
1-1/2	38.1		2000 – 2360	2712 – 3200	1030 – 1120	1397 – 1519	1630 – 1910	2210 – 2590	1530 – 1800	2075 – 2441
1-5/8	41.3		2600 – 2900	3526 – 3932	1200 – 1400	1627 – 1898	2200 – 2400	2983 – 3254	2100 – 2300	2848 – 3119
1-3/4	44.5		3170 – 3450	4299 – 4678	1510 – 1770	2048 – 2400	2570 – 3000	3485 – 4068	2420 – 2825	3282 – 3831
2	50.8		4700 – 5530	6373 – 7499	2245 – 2635	3044 – 3573	3820 – 4480	5180 – 6075	3590 – 4200	4868 – 5695

5. EXPLODED VIEW AND PART LIST

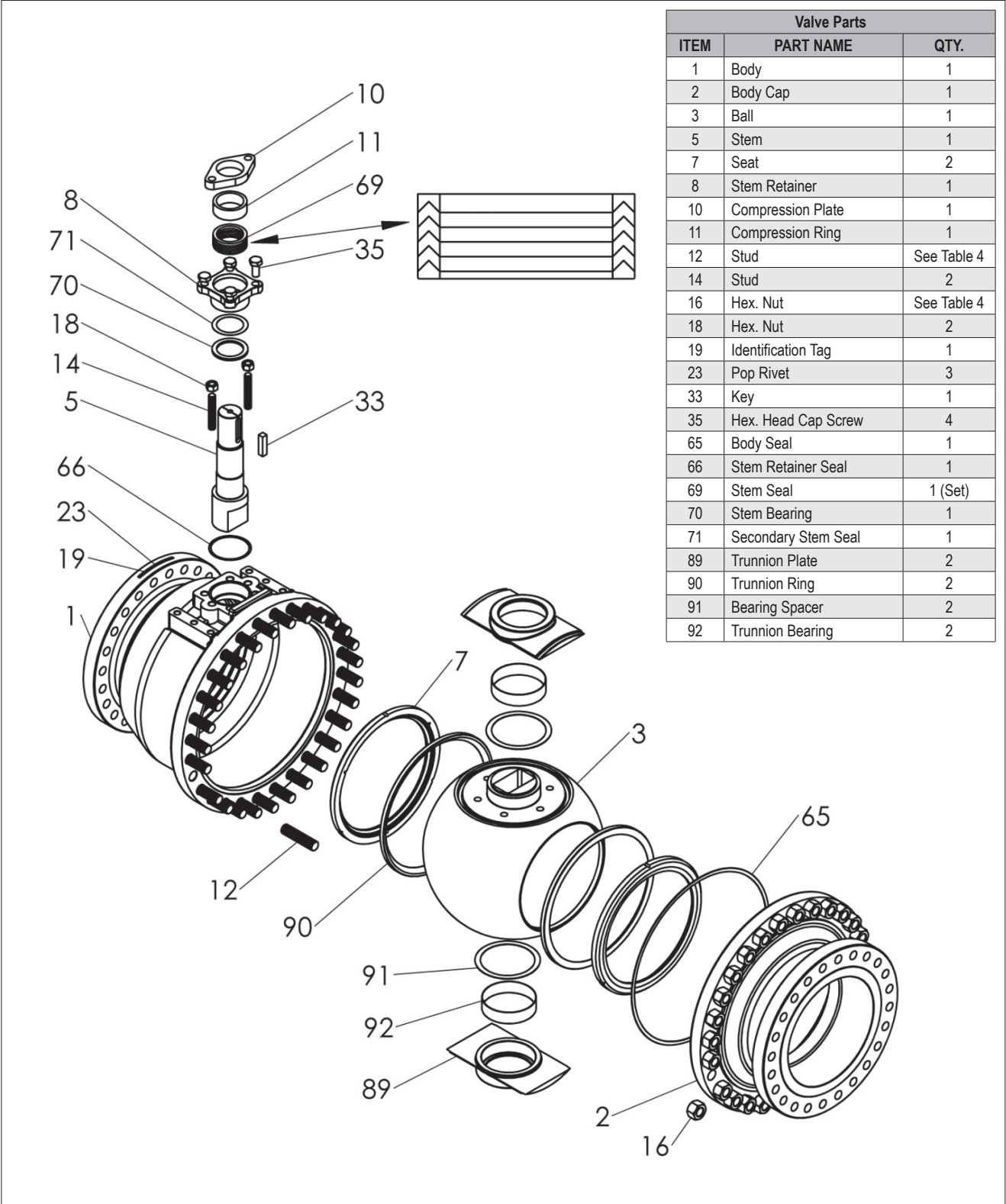


Figure 1.

6. BOLT SEQUENCE CHART

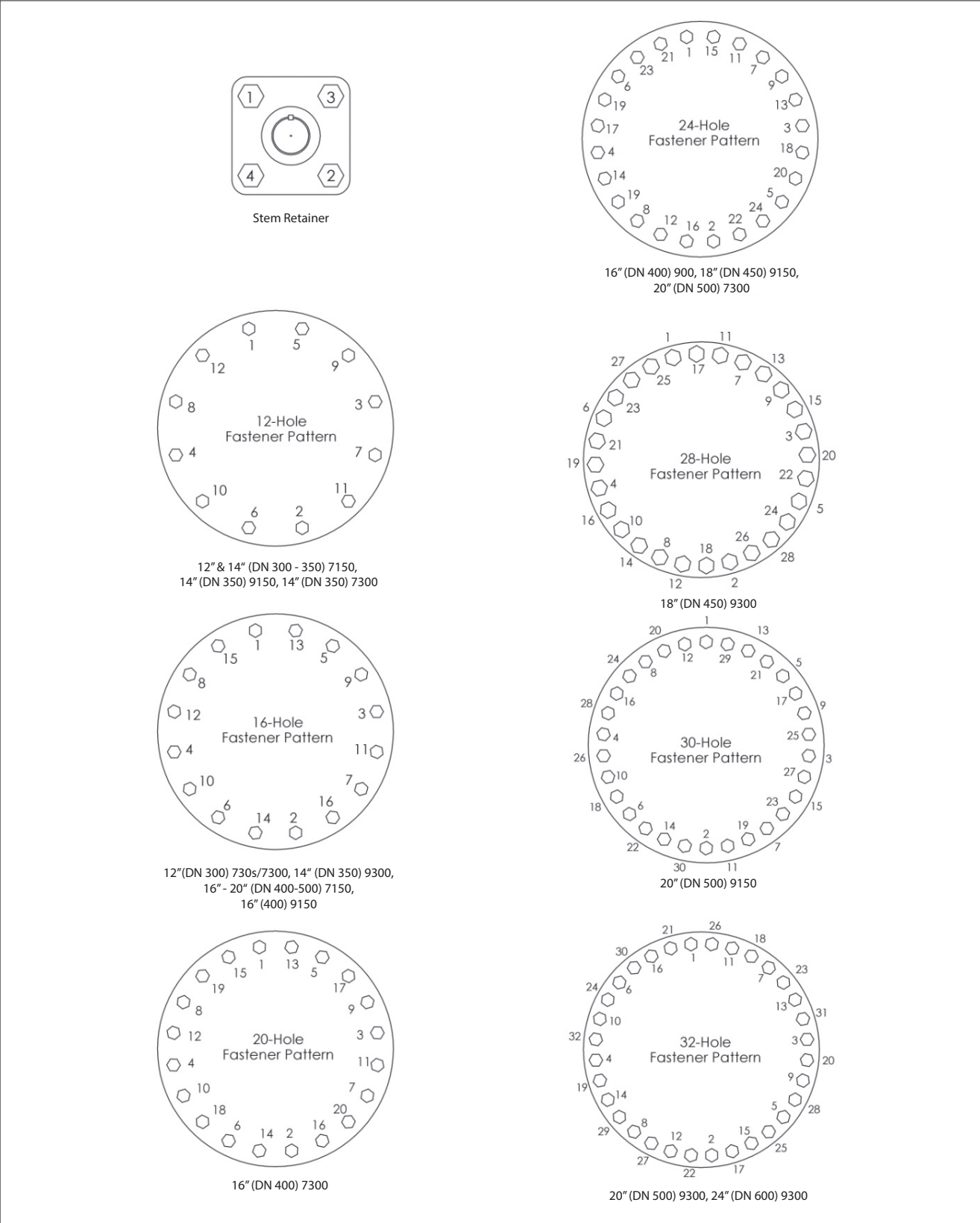


Figure 2.

7. FASTENER SIZING CHART

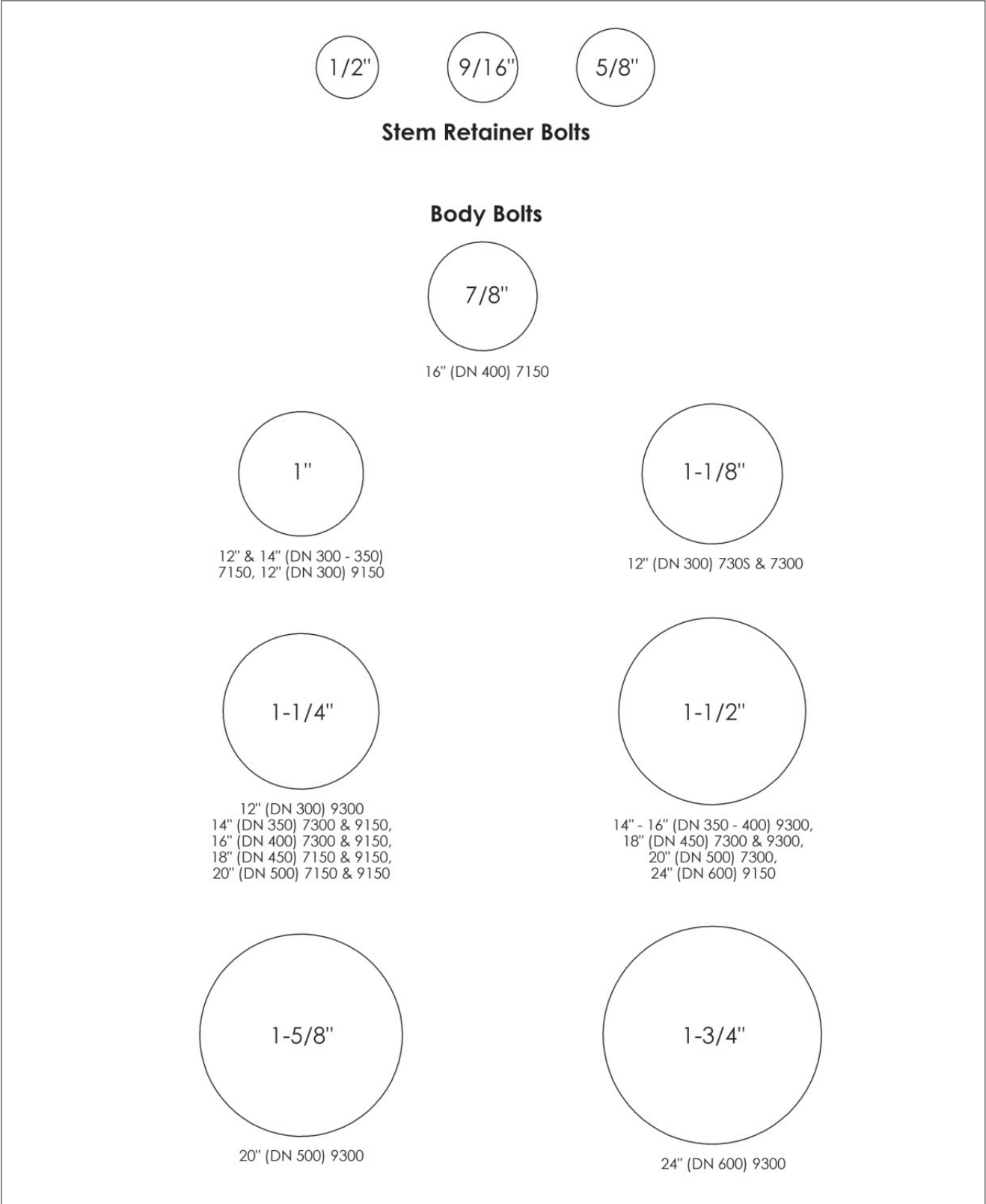


Figure 3.

Table 3	
Ball Port	Dimension "B"
12" (DN 300) – 7000 14" (DN 350) – 7000	1-9/16" (39.7 mm)
12" (DN 300) – 9000 16" (DN 400) – 7000	1-13/16" (46 mm)
14" (DN 350) – 9000 18" (DN 450) – 7000	1-3/4" (44.4 mm)
16" (DN 400) – 9000 20" (DN 500) – 7000	1-15/16" (24.6 mm)
18" (DN 450) – 9000	2-1/4" (57.2 mm)
20" (DN 500) – 9000	2-9/16" (65.1 mm)

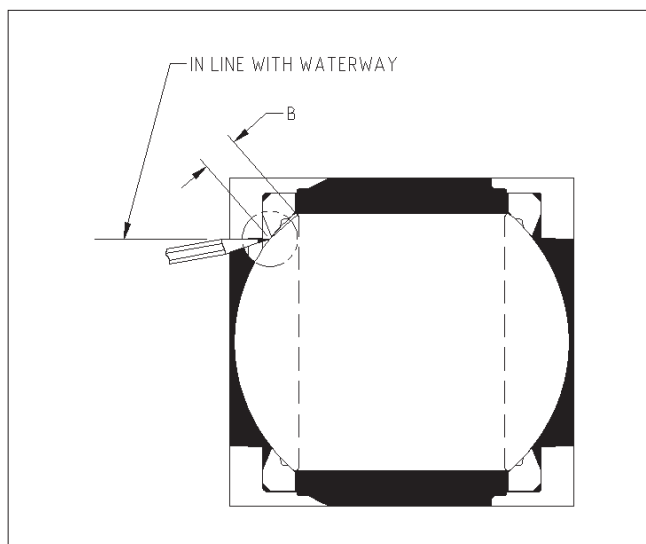


Figure 4.

Table 4				
Valve Size		Type	Body Bolt Size	Quantity
Inches	DN			
12	300	7150	1	12
12	300	730S	1-1/8	16
12	300	7300	1-1/8	16
12	300	9150	1	12
12	300	9300	1-1/4	16
14	350	7150	1	12
14	350	7300	1-1/4	12
14	350	9150	1-1/4	12
14	350	9300	1-1/2	16
16	400	7150	7/8	16
16	400	7300	1-1/4	20
16	400	9150	1-1/4	16
16	400	9300	1-1/2	24
18	450	7150	1-1/4	16
18	450	9150	1-1/4	24
18	450	9300	1-1/2	28
20	500	7150	1-1/4	16
20	500	7300	1-1/2	24
20	500	9150	1-1/4	30
20	500	9300	1-5/8	32
24	600	9150	1-1/2	28
24	600	9300	1-3/4	32

8. CE AND ATEX MARKING

When applicable, the valve meets the requirements of the European Directive 2014/68/EU relating to pressure equipment, and has been marked according to the Directive.

When applicable, the valve meets the requirements of the European Directive 2014/34/EU relating to equipment and protective systems intended for use in potentially explosive atmospheres, and has been marked according to the Directive.

Refer to EU Declaration of Conformity below, for product details.

9. EU DECLARATION OF CONFORMITY



EU DECLARATION OF CONFORMITY

for ATEX approved valves



Manufacturer:

Valmet Flow Control Inc.
Shrewsbury, MA 01545-8044
USA

*Valmet Flow Control (Jiaxing) Co., Ltd.

Jiaxing, China

*) Also manufactures certain series

EU Authorised Representative: Valmet Flow Control Oy, Vanha Porvoontie 229, 01380

Vantaa, Finland. Contact details: [+358 10 417 5000](tel:+358104175000)

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product:	Jamesbury Threaded/Welded End & Flanged Ball valves		
Type:	1/4" – 2" 4000 & Eliminator Series (**) 1/2" – 24" 7000 & 9000 Series (**)		
ATEX group and category:		II 2 GD, II 3 GD	
Ex GAS:	Ex h	IIC 85°C...Tmax	Gb/Gc
Ex DUST:	Ex h	IIIC T85°C...T(Tmax)	Db/Dc
Tmax= valve max. temperature in name plate			

(** Dependent on valve code designation.

Manufacturer's certificates:

Standard / Directive	Notified Body and NoBo number	Certificate No.
ISO 9001:2015	LRQA (Certification body)	10531829
PED 2014/68/EU Module H	DNV Business Assurance Italy S.r.l. 0496	142306-2013-CE-FIN-ACCREDIA
ATEX 2014/34/EU Annex IV	DNV Product Assurance AS Norway 2460	Presafe 18 ATEX 91983Q Issue 6

ATEX 2014/34/EU Annex VIII technical files are archived by Notified Body number 0537

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

PED 2014/68/EU	Valve
ATEX 2014/34/EU	Non-electrical equipment

Main components:

Valve:
The valve is suitable for service up to PED Cat III
Valve design standard: ASME B16.34

Installation, Maintenance and Operating instructions manual (IMO) must be followed before installation in order to ensure proper and safe mounting and usage of equipment.

The product above is manufactured in compliance with the applicable European directives and technical specifications/standards EN10204:3.1. The product is in conformity with the customer order.

Instrumentation and accessories having equal protection concept, level and performance specification with the original can be presumed to be in conformity with this Declaration of Conformity.

Protection from e.g. static electricity caused by the process or connected equipment must be considered by the user (EN 60079-14 § 6). EN 60079-19 applies for modifications.

Non-electrical equipment is according EN 80079-37:2016 and EN 80079-36:2016. The actual surface temperature of non-electrical equipment is depended on the process and ambient conditions (EN 80079-36:2016 § 6.2.5 and 6.2.7). The protection from high or low temperature must be considered by the end user before put into service.

The product does not possess any residual risk according to hazard analysis conducted under the applicable directives providing that the procedures stated by the IMO are followed and the product is used under conditions mentioned in the technical specifications.

Documents with digital and/or e-signature conveyed by Valmet Flow Control conform to the Regulation (EU) No 910/2014 as well as the national code on e-signatures. In order to secure the integrity of the document, the authenticity of the sender, and indisputableness of the dispatch the identification is covered by individual ID codes, passwords, and by regularly changing passwords. The authorization to sign documents is based on organizational position and/or is task related. The impartial third party in the company bestows the access right with predefined authorities to particular databases.

Shrewsbury

10.9.2024

Juha Virolainen, Global Quality Director

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