

Jamesbury™ TORQ-HANDLE® Spring Return Handles

Installation, maintenance and
operating instructions

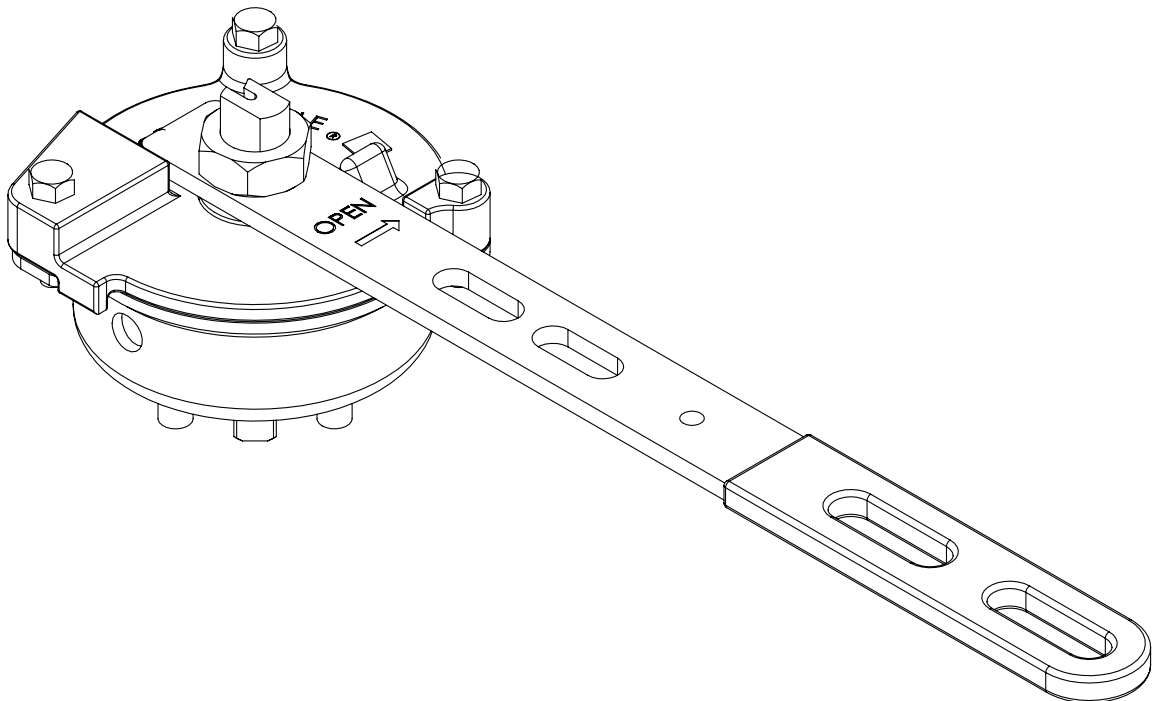


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Subject to change without prior notice.

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 for the Jamesbury™ TORQ-HANDLE Spring Return Handles. Please read these instructions carefully and save them for future reference.

1.1 WARNING

1. DO NOT ATTEMPT TO DISASSEMBLE OR REPAIR THIS DEVICE. IMPROPER ASSEMBLY COULD RESULT IN FAILURE OF THE TORQ-HANDLE TO FUNCTION PROPERLY. IF MAINTENANCE IS REQUIRED, RETURN THE ENTIRE UNIT TO VALMET.
2. DO NOT ATTEMPT TO INSTALL A TORQ-HANDLE AND LINKAGE ONTO A VALVE IN THE PIPELINE. FOLLOWING THE INSTRUCTIONS IN THE VALVE'S INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS (IMO), TAKE THE VALVE OUT OF SERVICE.
3. DO NOT USE TORQ-HANDLES ON VALVES WITH BRASS OR ALUMINUM STEMS. REPLACE BRASS OR ALUMINUM VALVE STEMS WITH STEMS OF STAINLESS STEEL AS SUITED FOR THE PARTICULAR SERVICE CONDITIONS.
4. KEEP FINGERS, HANDS AND CLOTHING AWAY FROM THE VALVE PORTS AT ALL TIMES.

2. INSTALLATION

2.1 WARNING

1. WHEN THE TORQ-HANDLE IS EQUIPPED WITH FUSIBLE LINK OPTION; BEWARE OF HANDLE SWING RADIUS. OBSTRUCTIONS WITHIN THE SWING RADIUS WILL PREVENT THE VALVE FROM FULLY OPENING OR CLOSING.
2. WHEN THE TORQ-HANDLE IS EQUIPPED WITH FUSIBLE LINK OPTION; ACTIVATION OF THE FUSIBLE LINK WILL CAUSE THE HANDLE TO MOVE QUICKLY AND WITH CONSIDERABLE FORCE. CONTACT WITH A MOVING TORQ-HANDLE MAY CAUSE SERIOUS PERSONAL INJURY.

1. Actuator mounting instructions are described in the IMO for each valve series. Table 1 lists IMOs for the applicable Jamesbury Valves.

Table 1 IMO Reference

Valve	IMO#
A Style Thread End Ball Valves, 1/4" - 2" (DN8-50) Model D	IMO-216
Clincher™ Thread End Ball Valves (Series 2000), 1/4" - 2" (DN8-50)	IMO-011
Eliminator Thread End Ball Valves, 1/4" - 2" (DN8-50) Model B	IMO-213
4000 Series 3-Piece Ball Valves, 2 1/2" (DN65) Reduced Bore & 2" (DN50) Full Bore Model A	IMO-203
4000 Series 3-Piece Ball Valves, 2 1/2" (DN65) Reduced Bore & 2" (DN50) Full Bore Model A	IMO-210
7000 & 9000 Series Flanged Ball Valves, Class 150 & 300, 1/2" - 2" (DN15-50) Standard Bore & 1/2" - 1 1/2" (DN15-40) Full Bore	IMO-214

For copies of these IMOs visit our web-site at www.valmet.com/flowcontrol

2. The TORQ-HANDLE is designed to stop the valve in its full open and closed positions. Minor adjustments may be made by using the clearances in the linkage. Do not change the hole size or hole locations of any components. Make minor adjustments of end stop positions by loosening either the bracket-to-TORQ-HANDLE screws, or the bracket-to-baseplate screws and rotating the entire TORQ-HANDLE until the clearance around the screws is taken up. Retighten the mounting screws. The open and closed positions are not independently adjustable.
3. TORQ-HANDLE are normally shipped from the factory in the spring-to-close mode. If mounted spring-to-close, go to Step 4. If the TORQ-HANDLE was mounted in the spring-to-open mode, the handle should be flipped to give proper direction indication. Insert a brass rod through the ball so that it will prevent the ball from rotating. The rod should be 1/32" to 1/16" smaller than the port diameter of the valve (see Table 2). Remove the stem nut as shown in (Figure 1). Remove the handle. Turn the handle over so that its arrow indicates counter-clockwise-to-shut and replace it onto the shaft. Replace the stem nut. Remove the rod from the valve port.

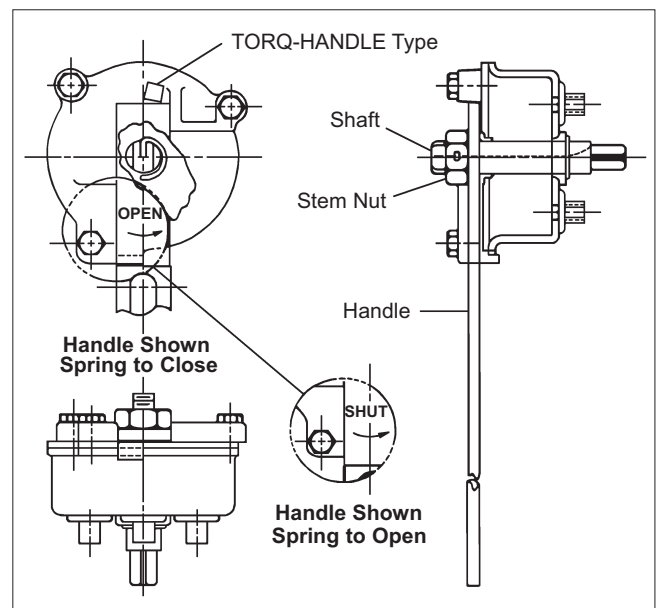


Fig. 1

Table 2 Valve Port Size

Size		A Style		Clincher		Eliminator		4000 Series				7000 Series		9000 Series	
								Reduced Bore		Full Bore					
Inches	DN	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
1/4"	8	0.43	10.92	0.46	11.66	0.43	10.97	-	-	-	-	-	-	-	-
3/8"	10	0.43	10.92	0.50	12.70	0.44	11.18	-	-	-	-	-	-	-	-
1/2"	15	0.50	12.70	0.50	12.70	0.50	12.70	0.50	12.70	0.50	12.70	0.47	11.94	0.47	11.94
3/4"	20	0.68	17.27	0.69	17.53	0.68	17.27	0.69	17.48	0.88	22.35	0.66	16.71	0.85	21.59
1"	25	0.88	22.35	0.88	22.35	0.88	22.35	0.88	22.35	1.00	25.40	0.85	21.59	0.98	24.89
1 1/4"	30	1.00	25.40	1.00	25.40	1.00	25.40	1.00	25.40	1.25	31.75	-	-	-	-
1 1/2"	40	1.25	31.75	1.25	31.75	1.25	31.75	1.25	31.75	1.50	38.10	1.22	30.99	1.47	37.34
2"	50	1.50	38.10	1.50	38.10	1.50	38.10	1.50	38.10	2.00	50.80	1.47	37.34	2.00	50.80

- Cycle the valve by turning the handle in the counter- clockwise direction, and check the valve's position at the end of the handle's stroke. The hole in the ball should be centered in the hole in the valve.
- Allow the valve to close and check the stopped Position. The valve should be fully closed. (If not see Step 2.)
- Install the valve following the instructions in the valve's IMO.

2.2 Addition of Fusible Link (Figure 2) Using Option Kit LK-8591

- Remove the two hex head cap screws holding the cover to the TORQ-HANDLE base shown in (Figure 2).
- Attach the bracket (1) using the hex head cap screws (10) and lockwashers (11) supplied in the kit. Also use the flat washer (34) on the slotted hole of the bracket.
- Place the fusible link (3) onto the clevis pin (32) as shown in Figure 2.
- Assemble these parts through the handle. Once through the handle add spacer (35) and secure with cotter hair pin (33).
- Stroke the handle and secure it by placing the clevis pin (30) into and through the bracket hole. Secure the clevis pin with the cotter hair pin (33).
- If fusible link needs to be replaced; the customer may purchase just the link and replace using steps above.

CAUTION: Do not obstruct handle swing. Obstruction could result in a valve not fully opened or closed.

2.3 Painting

If the installation is to be painted, mask the areas around the shaft and bearings to prevent paint from building up in the bearings. Paint build-up in the bearings could cause improper operation. Re-mark the open direction arrow.

3. HOW TO ORDER

WARNING:

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

To order the Jamesbury Torq-Handle spring-return handles, specify either TORQ-HANDLE A or TORQ-HANDLE B (See Torque Output Table).

Torque Output	
Torq-Handle A	7.5 FT-LBS (10 Nm)
Torq-Handle B	15 FT-LBS (20 Nm)

4. MAINTENANCE

The TORQ-HANDLE has been lubricated at the factory. No routine lubrication is necessary.

The TORQ-HANDLE should be cycled periodically to ensure proper operation.

WARNING:

THE TORQ-HANDLE IS NOT FIELD REPAIRABLE. IF SERVICE IS NECESSARY, CONTACT YOUR NEAREST JAMESBURY STOCKING DISTRIBUTOR OR REPRESENTATIVE, OR CONTACT VALMET CUSTOMER SERVICE DEPARTMENT FOR RETURN AUTHORIZATION AND SHIPPING INSTRUCTIONS.

5. REPAIR KITS/SPARE PARTS

We recommend that actuators 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 actuator warranty with all reconditioned actuators.

NOTE:

WHEN SENDING GOODS TO THE SERVICE CENTER FOR REPAIR; DO NOT DISASSEMBLE THEM. CLEAN THE ACTUATOR PRIOR TO SHIPPING.

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

4.1 Specifications

Ambient temperature range: -40°F to + 180°F (-40°C to +82.2°C)

Materials of Construction: Steel housing, shaft handle and spring

Bearings: Self-lubricated thermoplastic

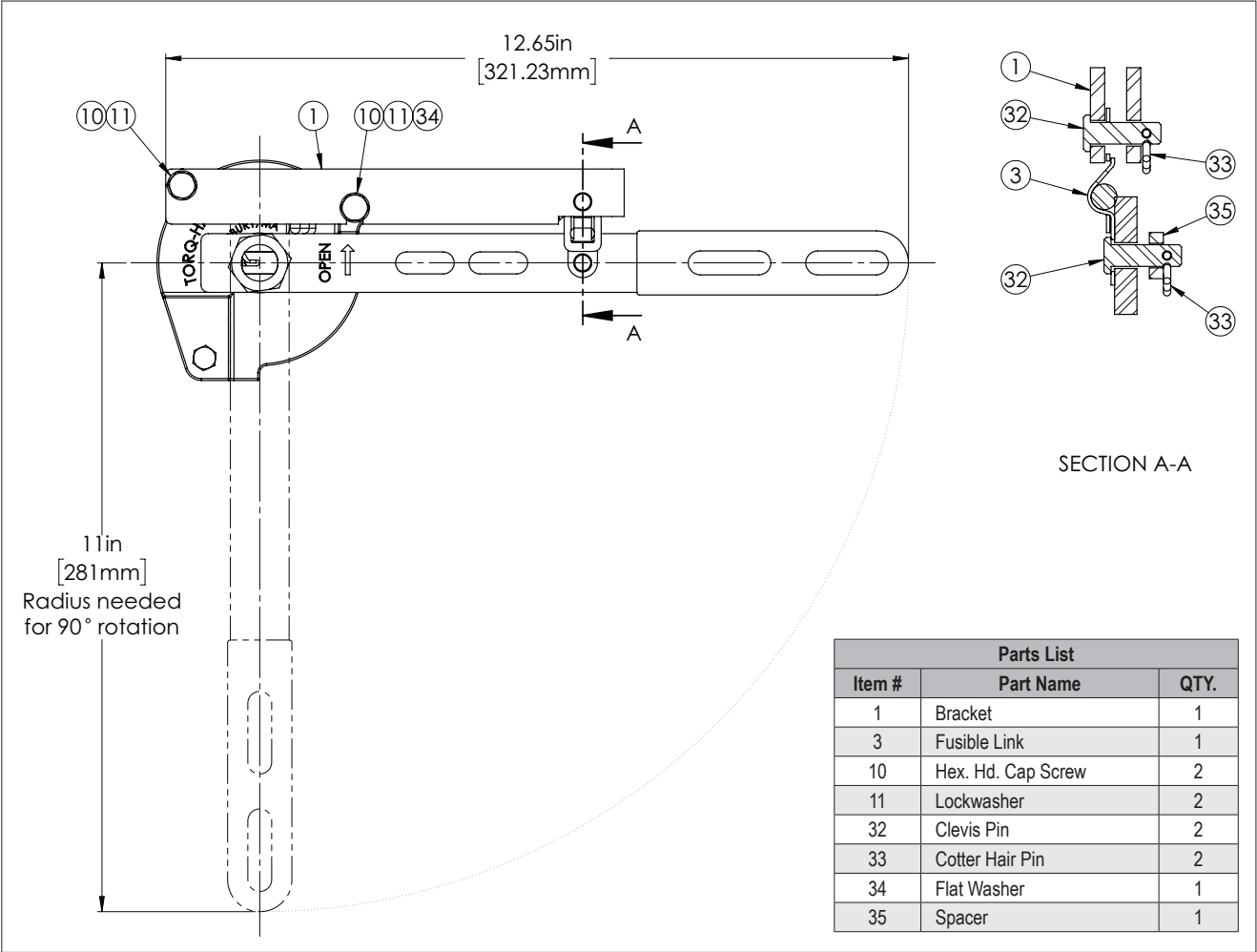


Fig. 2

Valmet Flow Control Oy

Vanha Porvoontie 229, 01380 Vantaa, Finland.

flowcontrol@valmet.com

Tel. +358 10 417 5000.

www.valmet.com/flowcontrol

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