	Form Title:	<p style="text-align: center;">ENGINEERING BULLETIN</p>	Document #:	EB-08-99
				(Form: DEF-003A-1)
	Document Title:	<p style="text-align: center;">Important Safety Instruction – Outside Screw & Yoke (OS&Y) Hydrolet Valve</p>	Revision:	1
				Date:
			Page:	1 of 2

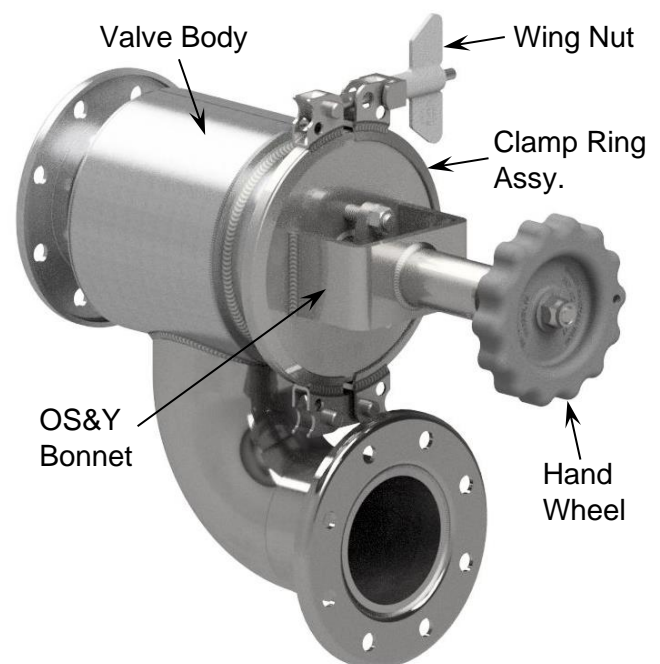
Description of Bulletin: This bulletin provides details on safety instructions that must be followed when operating or servicing Betts Outside Screw & Yoke (OS&Y) hydrolet valve.


Background Details: The design of the OS&Y hydrolet incorporates a quick release clamp ring and an outside screw and yoke that isolates the threads from product being hauled. A cotter pin is utilized to prevent the stem from unscrewing from the disc holder assembly. It is imperative that this cotter pin is in place during operation and proper inspection must be conducted to verify the cotter pin is properly installed.

Bulletin Instructions:


Prior to loading or unloading the following steps must be followed. These are not inclusive instructions for all loading or unloading practices. They are only a guideline concerning the operation of the OS&Y hydrolet valve.

- 1) Always wear protective gear appropriate to the product being transported. Examples may include gloves, safety goggles, face shields, protective suits and respirators. It is the responsibility of the operator to know the product being hauled and the gear required.
- 2) Ensure the emergency valve is closed and the piping and hydrolet do not contain pressure or product.
- 3) Inspect QRB clamp ring assembly for proper installation. Ensure that clamp ring is seated properly around perimeter of bonnet and valve body. The wing nut must be secured hand tight not to exceed 90 in-lb. Replace damaged clamp rings before loading or unloading. See EB-09-99 for more details.
- 4) Verify that the hydrolet stem is securely engaged with disc holder assembly using the following steps. This is a critical step to ensure the stem does not separate from the disc holder assembly and eject from the valve.



 WARNING	Failure to follow these steps could result in injury or product leakage
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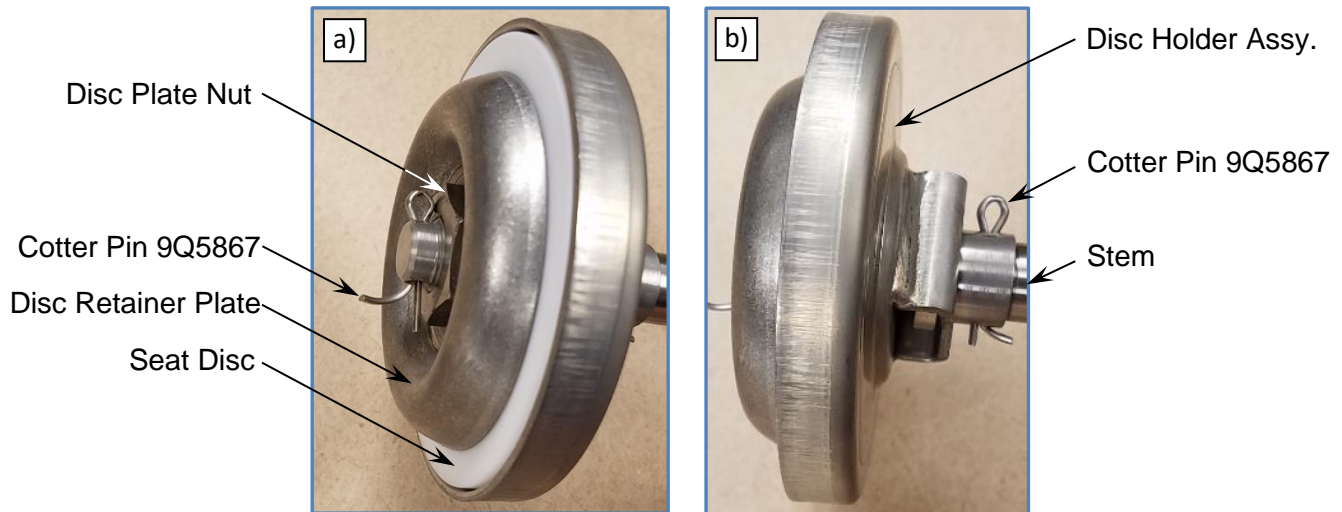
- a) Ensure the emergency valve is securely closed and no pressure is in the hydrolet.

	Form Title:	Document #:	
		ENGINEERING BULLETIN	EB-08-99 <small>(Form: DEF-003A-1)</small>
	Document Title:		Revision:
	Important Safety Instruction – Outside Screw & Yoke (OS&Y) Hydrolet Valve		1
		Date:	
		March 25, 2020	
		Page:	
		2 of 2	

- b) Open hydrolet by turning hand wheel counterclockwise. Do not use a wrench in place of handle; excessive torque could cause internal cotter pin to shear.
- i) If the stem bottoms out and stops rotating, it is still attached to the disc holder.
 - ii) If the stem continues to turn and freely comes out of the body, the disc holder assembly has separated from the stem. **Repair valve before beginning to load or unload.**

The following are important steps when performing maintenance on the valve to ensure the stem/disc assembly cotter pins are properly installed.

- 1) OS&Y Hydrolet has two 316 stainless steel cotter pins in the stem and disc holder assembly that must be installed for safe operation.



- 2) The first cotter pin is located behind the disc plate nut. It must be installed to prevent the disc plate nut from loosening to the point that the disc retainer plate and seat disc come apart from the disc holder assembly. This should be inspected for corrosion or wear and replaced if necessary at regular intervals depending on service conditions.
- 3) The second cotter pin is located at the junction of the stem and the disc holder assembly. It prevents the stem from disengaging from the disc holder assembly. This should be inspected for corrosion or wear and replaced if necessary at regular intervals depending on service conditions.

Failure to install the correct size and material cotter pins can result in a separation between the disc holder and the stem.

If there are any questions, contact Betts Sales or Design Engineering Department.