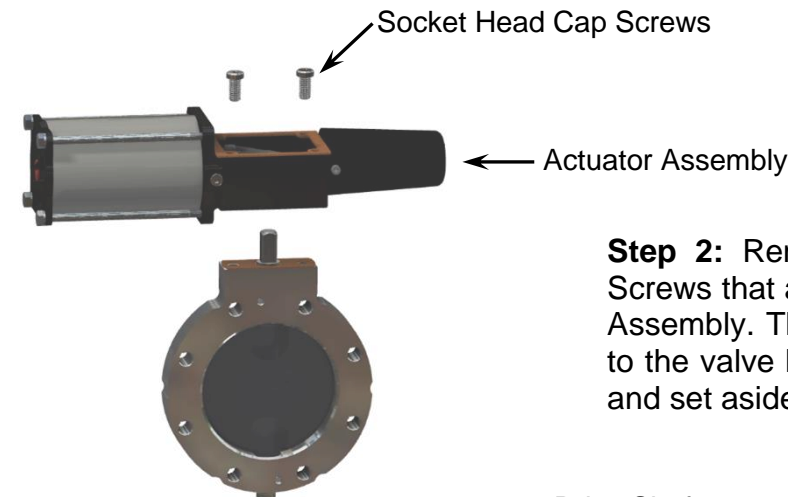
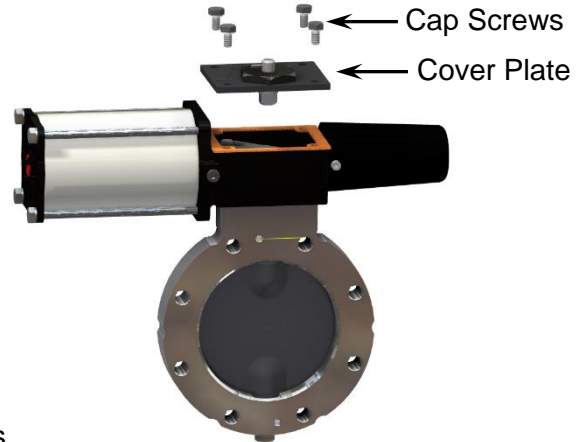
	Form Title:	<p align="center">ENGINEERING BULLETIN</p>	Document #:	<p align="center">EB-01-02</p> <small>(Form: DEF-003A-1)</small>
				Revision:
	Document Title:	<p align="center">Convert Wet-R-Dri Actuator from Normally Closed to Normally Open</p>	Date:	<p align="center">June 4, 2021</p>
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Description of Bulletin: This bulletin provides instructions on how to convert a Betts Air/Spring actuated Wet-R-Dri Valve from a normally closed to normally open valve. A normally closed actuator uses spring force to keep the valve closed and air pressure applied to the actuator to open the valve. A normally open actuator uses spring force to keep the valve open and air pressure applied to the actuator to close the valve.

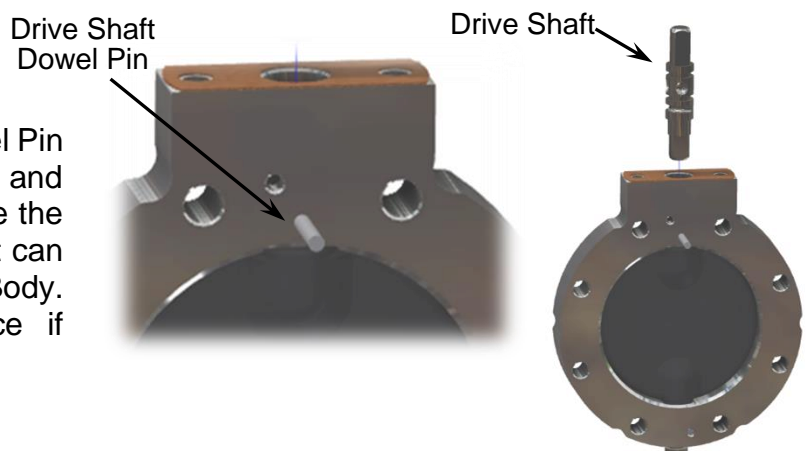
Bulletin Instructions:

Step 1: Remove the four (4) Hex Head Cap Screws and Star Washers that hold down the actuator cover plate. Lift off the cover plate and set aside.



Step 2: Remove the two (2) Socket Head Cap Screws that are at the inside bottom of the Actuator Assembly. These bolts hold the Actuator Assembly to the valve body. Remove the Actuator Assembly and set aside.

Step 3: Remove the Drive Shaft Dowel Pin using a punch. This is a tapered pin and can be extracted only one way. Once the dowel pin is removed, the Drive Shaft can be pulled straight out of the Valve Body. Inspect O-rings on shaft. Replace if damaged or worn.





Form Title:

ENGINEERING BULLETIN

Document #:

EB-01-02

(Form: DEF-003A-1)

Revision:

1

Document Title:

Convert Wet-R-Dri Actuator from Normally Closed to Normally Open

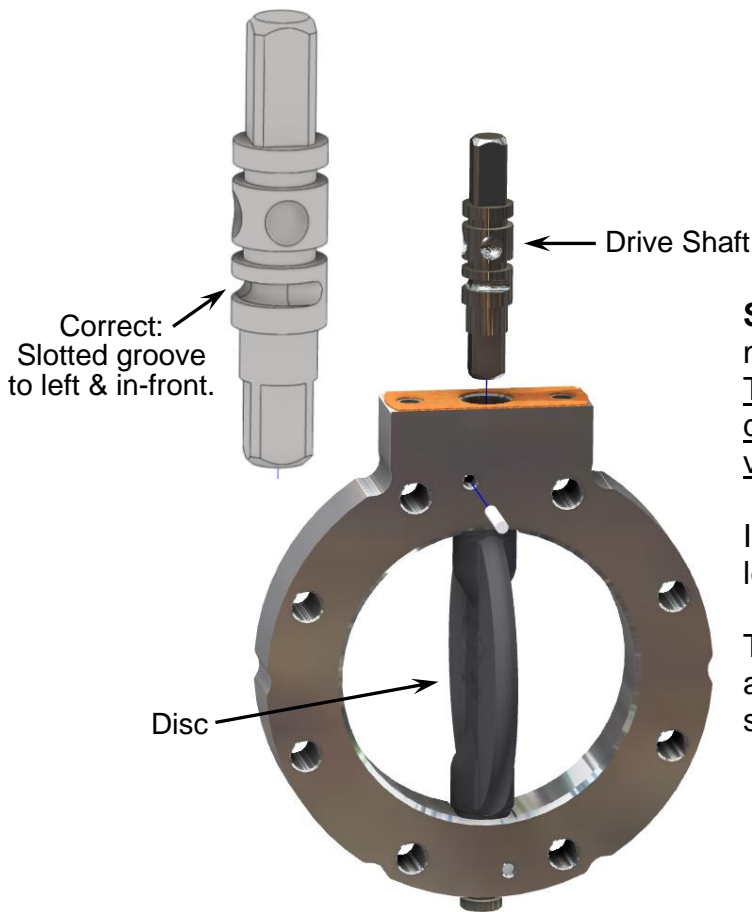
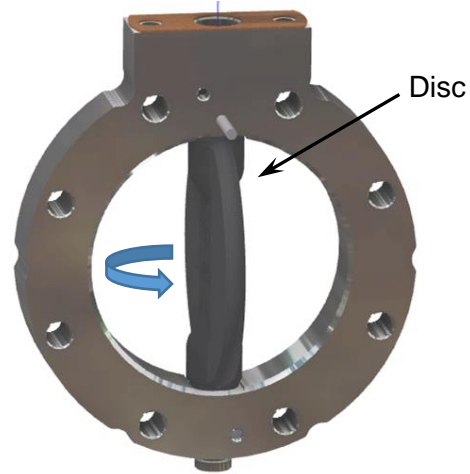
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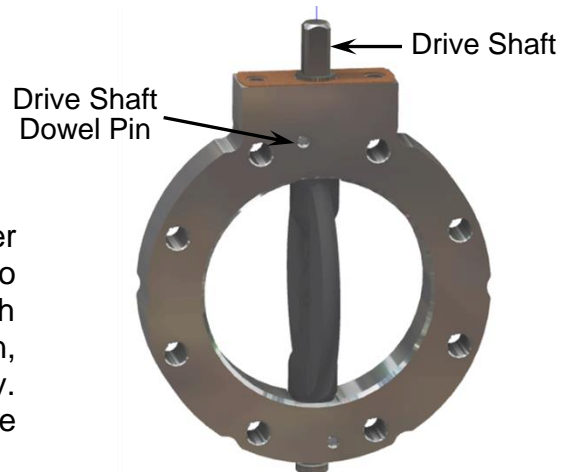
Step 4: With the Drive Shaft removed from the valve, rotate the Disc 90° (1/4 turn) while keeping the Disc centered in the flat broached area of the valve body.




Step 5: Prior to inserting the Drive Shaft, make note of the rotational orientation. The rotational orientation of the Drive Shaft during insertion clocks the operation of the valve. See images for correct orientation.

Insert Drive Shaft with slotted groove to the left and in-front.

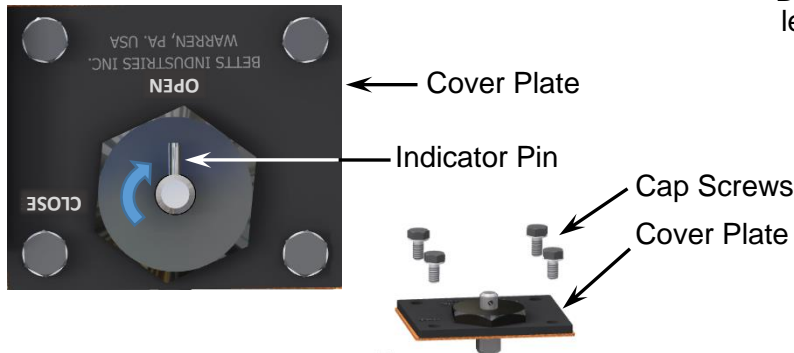
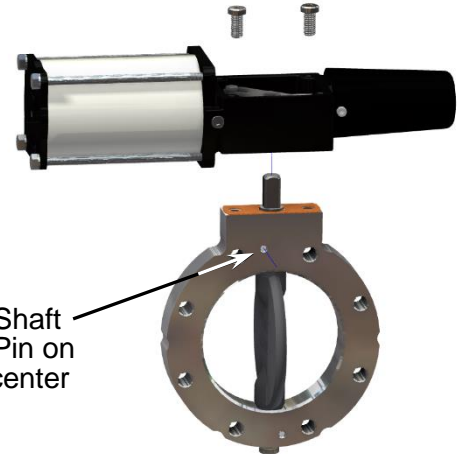
The Disc may require slight adjusting to allow square of Drive Shaft to fit into the square of Disc.



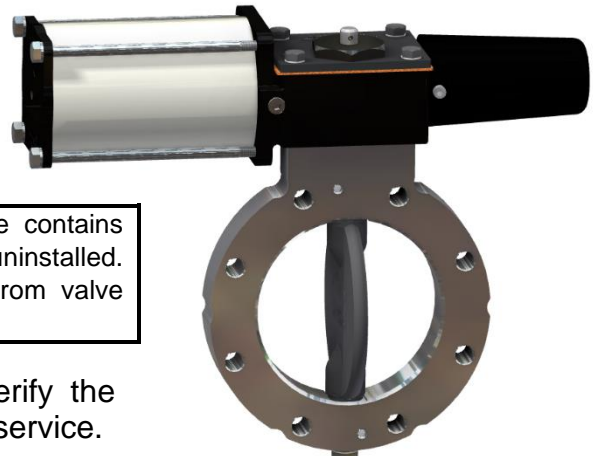
Step 6: Re-insert the Dowel Pin with the taper leading into the hole. The Drive Shaft may need to be adjusted slightly to line up the slotted groove with the Dowel Pin. If a hammer is used to install the pin, be careful not to damage face of the valve body. Dowel Pin should be installed flush with the valve body face.


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Step 7: Re-install the Actuator Assembly and secure with two (2) Socket Head Cap Screws. Make note: the Disc should be in the open position and the valve body should be oriented so the Drive Shaft Dowel Pin is located on the left of center when the Actuator Assembly is installed.



Step 8: Prior to installing the Cover Plate, rotate the Indicator Pin from "Closed" to "Open" position. Install the Cover plate using the four (4) Hex Bolts and Star Washers.



		<p>Pinch Point – Valve contains pinch points when uninstalled. Keep fingers away from valve bore when actuating.</p>
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Step 9: The conversion is complete. Test and verify the function of the valve and actuator prior to putting into service.