

IDC PRO FLOW CONTROL COMPONENT INSTALLATION

This document supports replacing and/or servicing flow control components in the IDC Pro. Read and become familiar with all content in this document before performing activities to replace or service flow control components in the IDC Pro.

SAFETY OVERVIEW




- Read and follow ALL SAFETY INSTRUCTIONS in this manual and any warning/caution labels on the unit (decals, labels or laminated cards).
- Read and understand ALL applicable OSHA (Occupational Safety and Health Administration) safety regulations before operating this unit.

SAFETY ALERT SYMBOL



This is the safety alert symbol. When you see this in the manual or on the unit, be alert to the potential of personal injury or damage to the unit.

Types of Alerts

 DANGER:	Indicates an immediate hazardous situation which if not avoided WILL result in serious injury, death or equipment damage.
 WARNING:	Indicates a potentially hazardous situation which, if not avoided, COULD result in serious injury, death, or equipment damage.
 CAUTION:	Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury or equipment damage.

SAFETY TIPS

- Carefully read and follow all safety messages in this manual and safety signs on the unit.
- Keep safety signs in good condition and replace missing or damaged items.
- Learn how to operate the unit and how to use the controls.
- Do not let anyone operate the unit without proper training. This appliance is not intended for use by very young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.
- Keep your unit in proper working condition and do not allow unauthorized modifications to the unit.

SAFETY INSTRUCTIONS



WARNING:

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

QUALIFIED SERVICE PERSONNEL



WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

SAFETY PRECAUTIONS



WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work. **Failure to comply could result in serious injury, death or damage to the equipment.**



CAUTION:

Always be sure to keep the area around the unit clean and free of clutter. **Failure to keep this area clean may result in injury or equipment damage.**



CAUTION:

Note the following: This unit is not designed for use in outdoor locations. The appliance must be placed in a horizontal position. The appliance is not suitable for installation in an area where a water jet would be used.

Tools and Flow Control Components Needed:

Item No.	Description	Part No.
1	Phillips Screw Driver	Not Applicable
2	Flow Control - Water	TBD
3	Flow Control - Brand	TBD
4	Flow Control - Flavor	TBD
5	Flow Control - HY	TBD

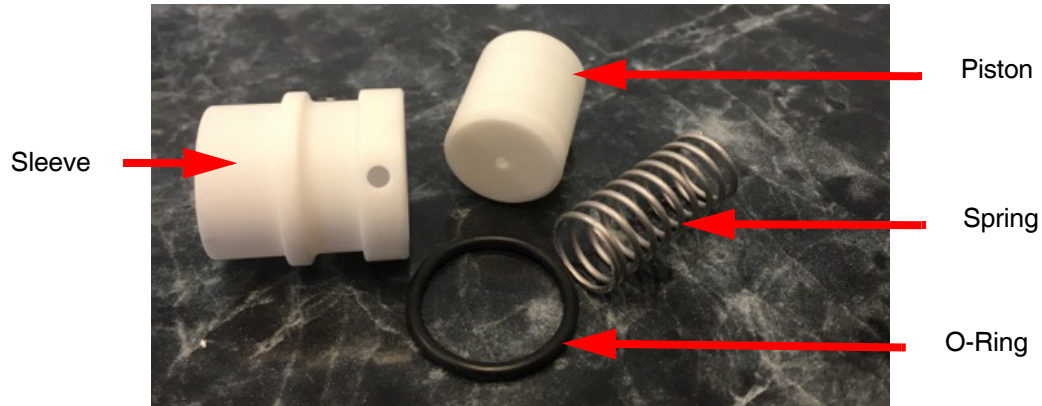


Figure 1 HY Flow Control Components

IDC Pro - FLOW CONTROL COMPONENTS - INSTALLATION

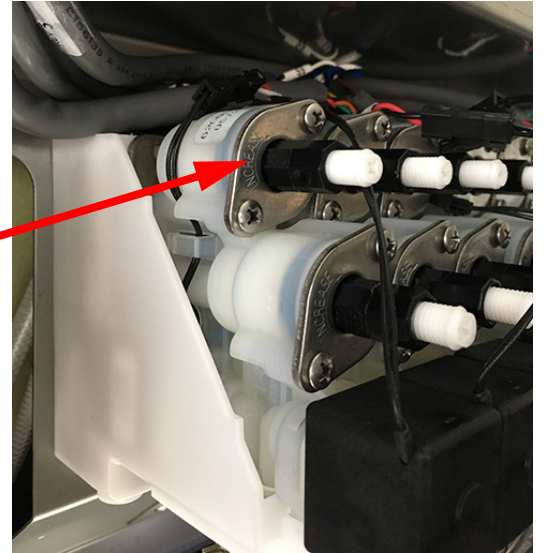
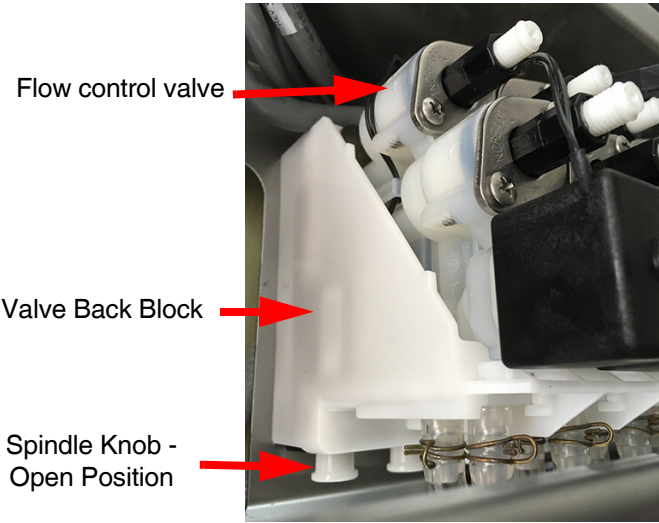
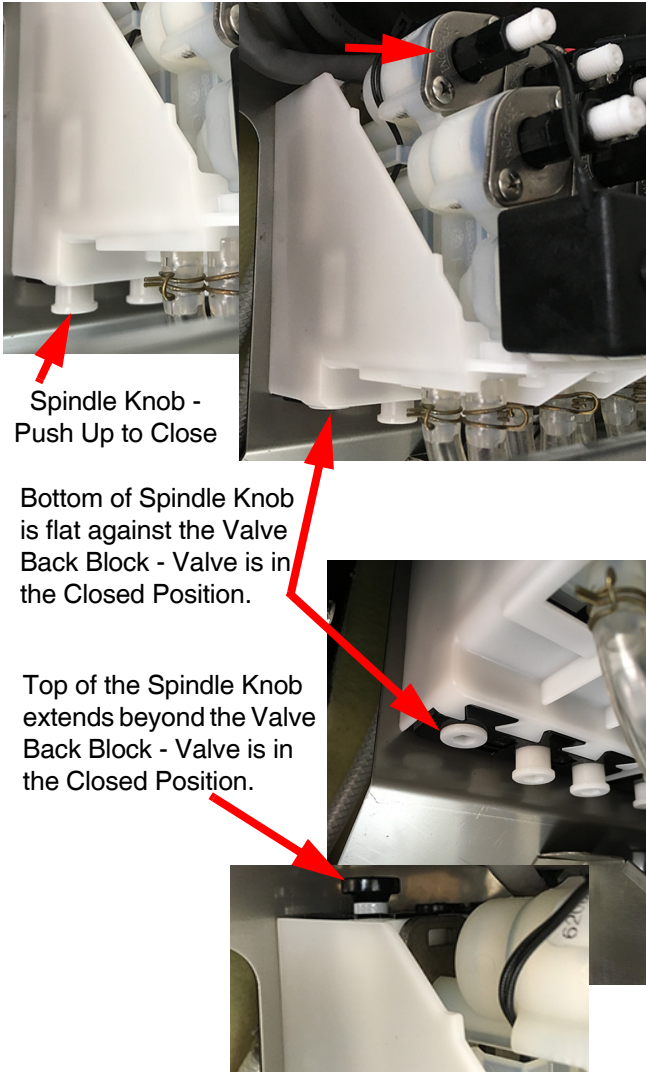

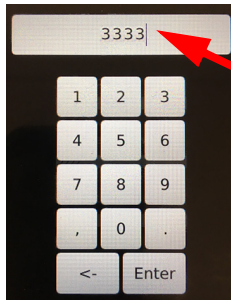


1	Open the door of the IDC Pro unit to gain access to the valves and flow control components.	
2	Identify the valve associated with the flow control components to be replaced. See the example in Figure 2.	 <p>Flow control valve (Right-Side Valve Bank)</p>

Figure 2

3	<p>Identify the location of the white Spindle Knob on the spindle for the valve associated with the flow control components to be replaced or serviced.</p> <p>Notice that when the white Spindle Knob on the spindle extends beyond the Valve Back Block, the valve is in the “Open” position and product is flowing.</p> <p>See Figure 3.</p>	 <p>Flow control valve</p> <p>Valve Back Block</p> <p>Spindle Knob - Open Position</p> <p>Figure 3</p>
4	<p>Close the Valve.</p> <p>To do this, push the bottom of the Spindle Knob up, flat against the bottom of the Valve Back Block.</p> <p>Result: The bottom of the Spindle Knob is positioned flat against the Valve Back Block, the top of the Spindle Knob extends beyond the top of the Valve Back Block and product flow for the valve is shut-off.</p> <p>See Figure 4.</p>	 <p>Spindle Knob - Push Up to Close</p> <p>Bottom of Spindle Knob is flat against the Valve Back Block - Valve is in the Closed Position.</p> <p>Top of the Spindle Knob extends beyond the Valve Back Block - Valve is in the Closed Position.</p> <p>Figure 4</p>

	Place the unit in Service Mode to access the Service User Interface - Service UI screen.	
5	<p>To do this, touch all four corners of the User Interface screen in sequence as shown in Figure 5.</p> <p>Result: A Keypad screen displays. See Figure 6.</p>	
<div></div> <p>Figure 5</p>		
6	<p>On the Keypad screen, type the Technician Access Code (3333) and press Enter.</p> <p>Result: The Service UI (User Interface) menu screen displays. See Figure 7.</p>	<div></div> <p>Figure 6</p>
7	<p>From the Service UI menu screen, access the Unit Setup screen.</p> <p>To do this, select the Unit Setup button. See Figure 7.</p> <p>Result: The Unit Setup menu screen displays. See Figure 8.</p> <p>Note: The Service UI menu screen on your unit may be slightly different from the example shown.</p>	<div></div> <p>Figure 7</p>
8	<p>From the Unit Setup menu screen, select the Valve Purge button. See Figure 8.</p> <p>Result: The Valve Purge Screen displays. See Figure 9.</p> <p>Note: The Unit Setup menu screen on your unit may be slightly different from the example shown.</p>	<div></div> <p>Figure 8</p>

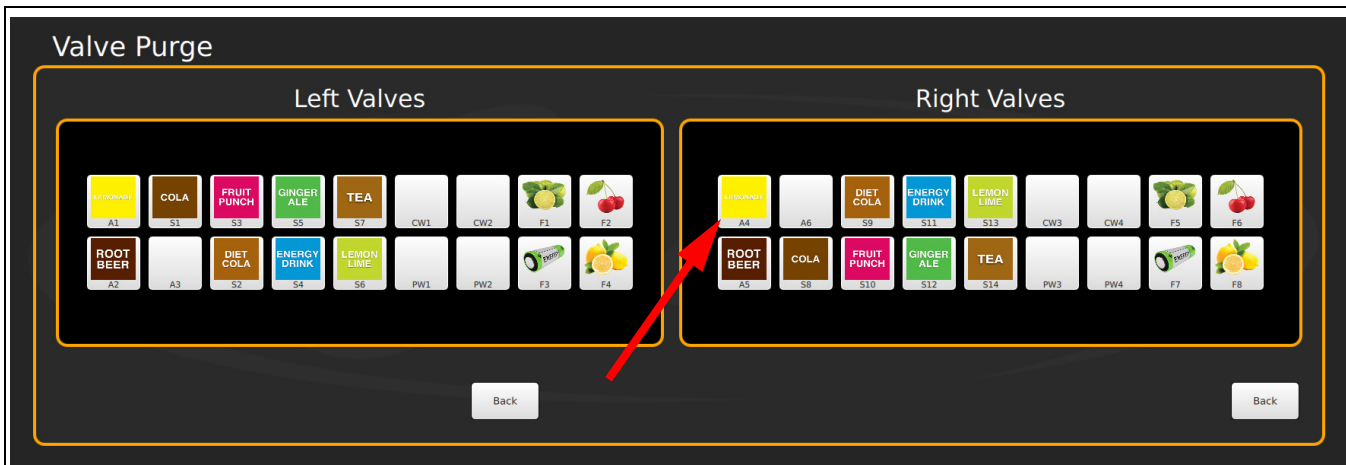


Figure 9

Note: Valves for the IDC Pro 255 are laid out inside the unit in a manner identical to what you see on the Valve Purge screen.

The flow control valve on the being worked on in this example is located at the far top left on the right valve bank of the unit. Valve A4 on the Valve Purge screen is also on the far top-left corner of the right valve bank area of the screen.

Note: The Valve Purge screen on your unit may be slightly different from the example shown.

9	<p>Execute a Valve Purge for the valve being worked on to relieve the pressure on the front side of the valve.</p> <p>To do this, press the button associated with the valve being worked (Valve A4 in this example). After 5 seconds of purge, press the button again to deactivate the purge.</p> <p>Result: The valve is purged and pressure is released on the front side of the selected valve.</p>
10	<p>Remove the two screws securing the Valve Adjustment Knob.</p> <p>Note: Before removing the Valve Adjustment Knob, Make sure that the spindle is closed and that the valve has been briefly purged to relieve pressure before removing the screws.</p> <p>To do this, using a Phillips screw driver, unscrew the two screws securing the valve adjustment knob. See Figure 10.</p> <p>Note: Place the screws in a safe place for later use.</p>
11	<p>Remove the Valve Adjustment Knob.</p> <p>To do this, pull the Valve Adjustment Knob out of the housing. See Figure 11.</p> <p>Note: You will have some product / flavor / water dribble out when you remove the flow control adjustment screw.</p>

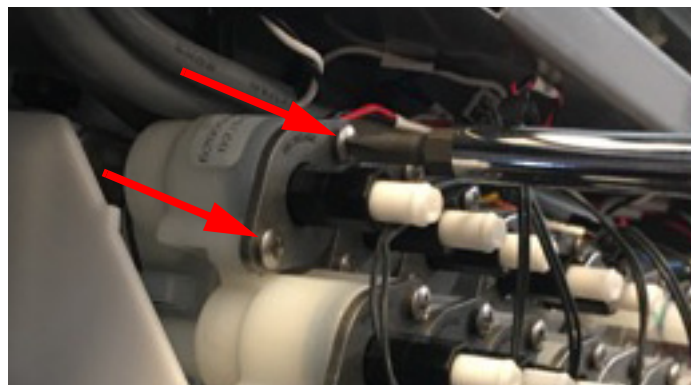
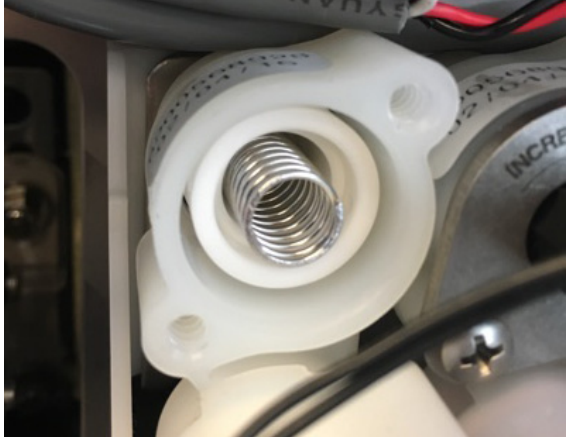
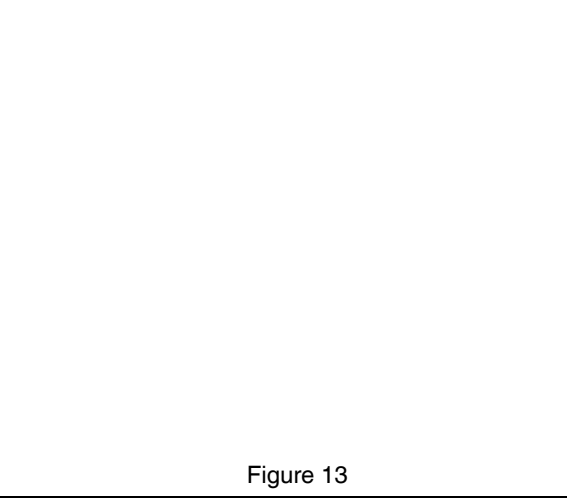
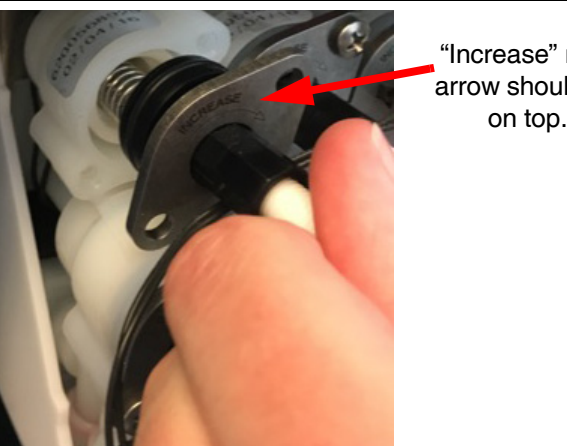
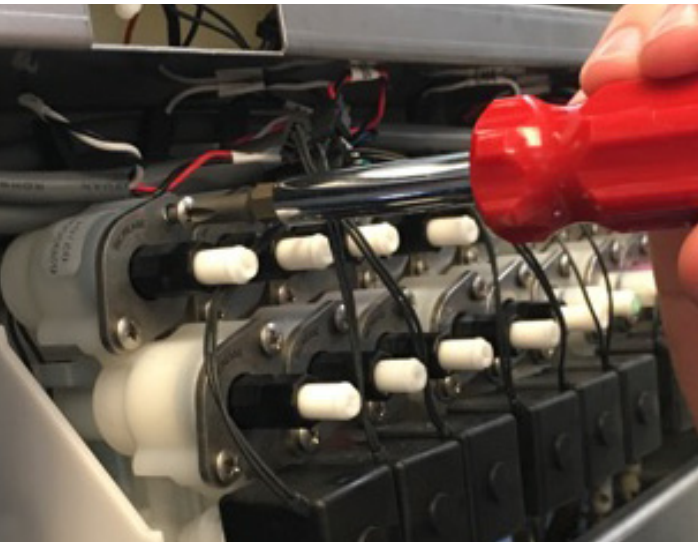

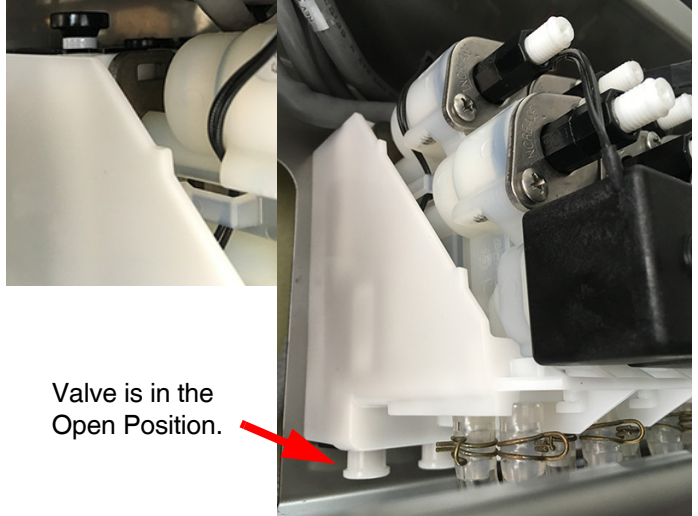


Figure 10



Figure 11

12	<p>Remove the flow control components to be replaced. See Figure 12.</p> <p>Note: When removing flow control components, make sure to not use anything sharp or abrasive to avoid scratching the ceramics.</p> <p>⚠ CAUTION: Once removed, take care not to drop any of the ceramic components since these are brittle and will break if dropped.</p>	 <p>Figure 12</p>
13	<p>Replace the flow control components.</p> <p>Note the proper orientation of the piston, sleeve, o-ring and the spring components as shown in Figure 13.</p>	 <p>Figure 13</p>
14	<p>Replace the Valve Adjustment Knob.</p> <p>To do this, insert the Valve Adjustment Knob into the housing as shown in Figure 14.</p> <p>Note that the proper position of the Valve Adjustment Knob is replaced so that the “increase” arrow on the retaining plate is on top. as shown in Figure 13.</p>	 <p>“Increase” right arrow should be on top.</p> <p>Figure 14</p>

15	<p>Secure the Valve Adjustment Knob.</p> <p>To do this, secure the Valve Adjustment Knob using the two screws removed previously.</p> <p>⚠ CAUTION: Do not over tighten the retaining screws; over tightening can lead to cracking of the flow control body.</p> <p>See Figure 15.</p>	 <p>Figure 15</p>
16	<p>Open the Valve.</p> <p>To do this, push down on the top of the Spindle Knob so that it is flush with the top of the Valve Back Block. In the Open position, product is flowing.</p>	<p> To open the valve, push the top of the Spindle Knob down, flat against the top of the Valve Back Block.</p>  <p>Valve is in the Open Position.</p> <p>Figure 16</p>
17	<p>Access the Valve Purge menu and purge the valve you worked on and check it for proper operation.</p> <p>To do access the Valve Purge menu, see Steps 5 through Steps 9, then exit the menu.</p>	
18	<p>From the User Interface, activate the product valves for the valve components serviced or replaced to ensure you have proper flow and taste for the product.</p>	

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