

# Nautilus P3

## RV Water Management Panel

### Theory of Operation

### Water Flow Paths Using Four Front Panel Levers

### White, Blue, Green, Red

This document is for educational and entertainment use.

NüCamp and B&B Molders have not reviewed  
or directly contributed to the contents.

All 3D Models are simple functional representatives of the actual hardware.  
X and Y dimensions are to approximate scale of actual hardware.  
Y dimension for hardware placement has been expanded for easy viewing.

Modifications or repairs of a Nautilus system based on this document  
is fully the users risk and not the intent of the document.

# Nautilus P3 RV Water Management Panel

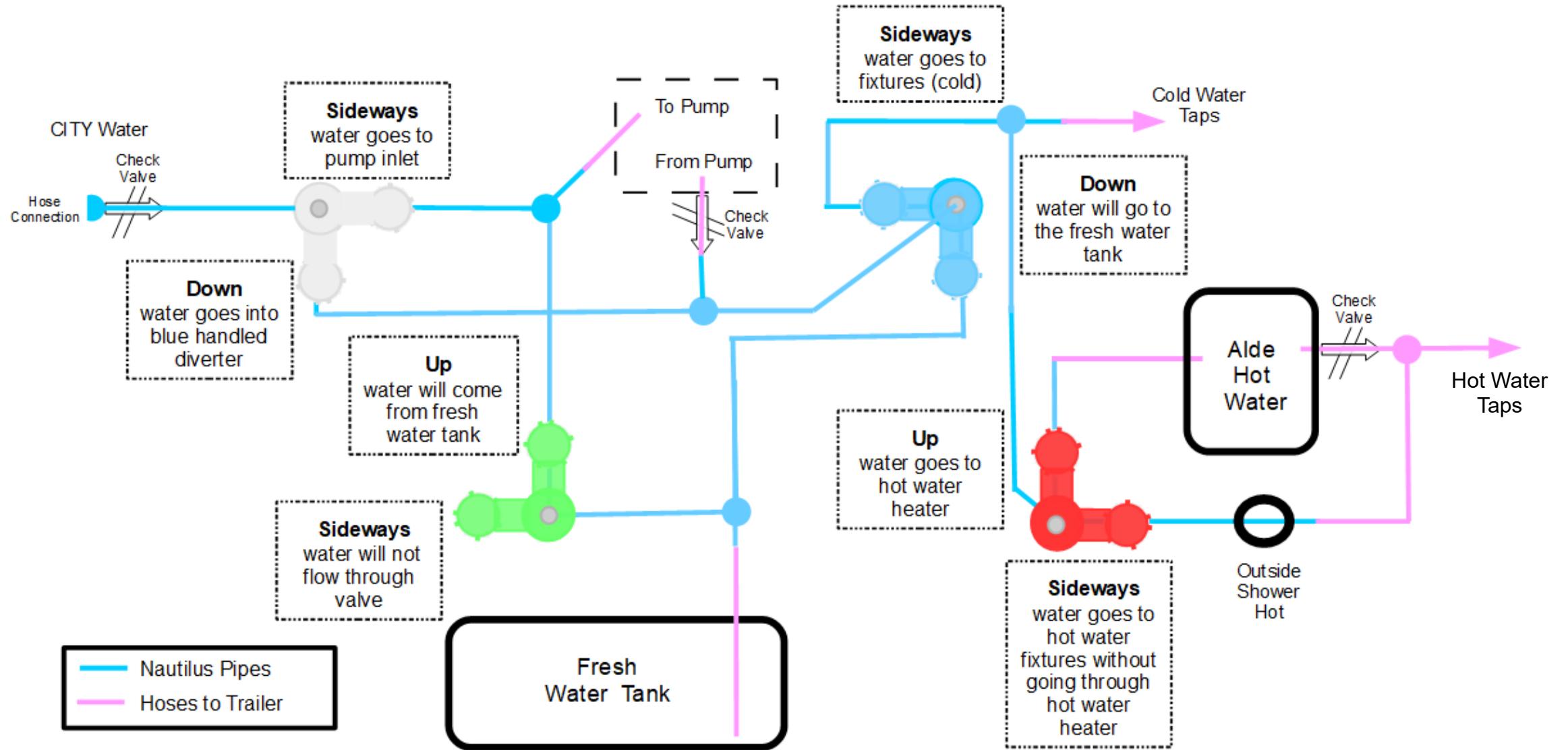


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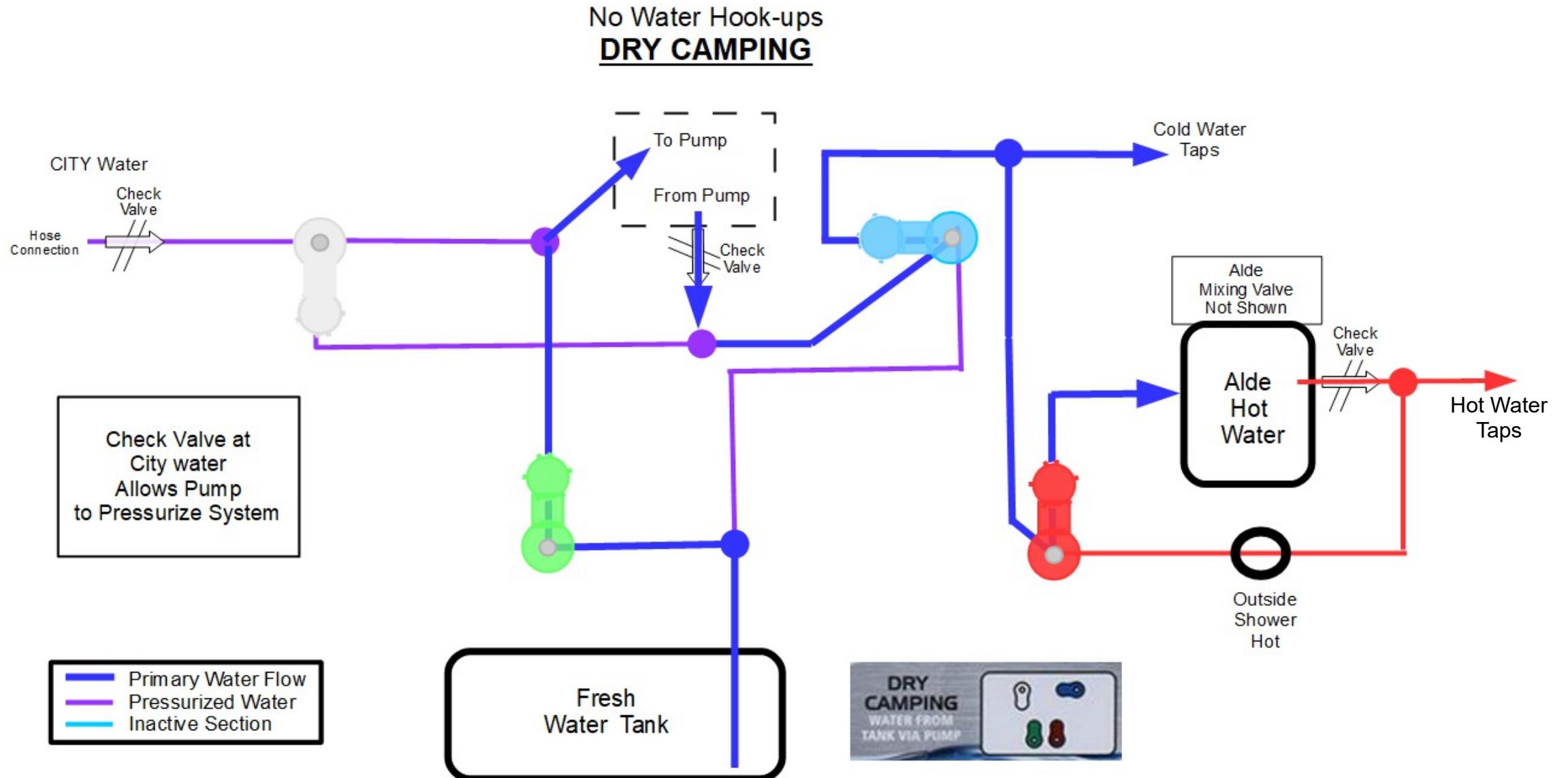
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# 1.0 Front View, Handle Placement Options

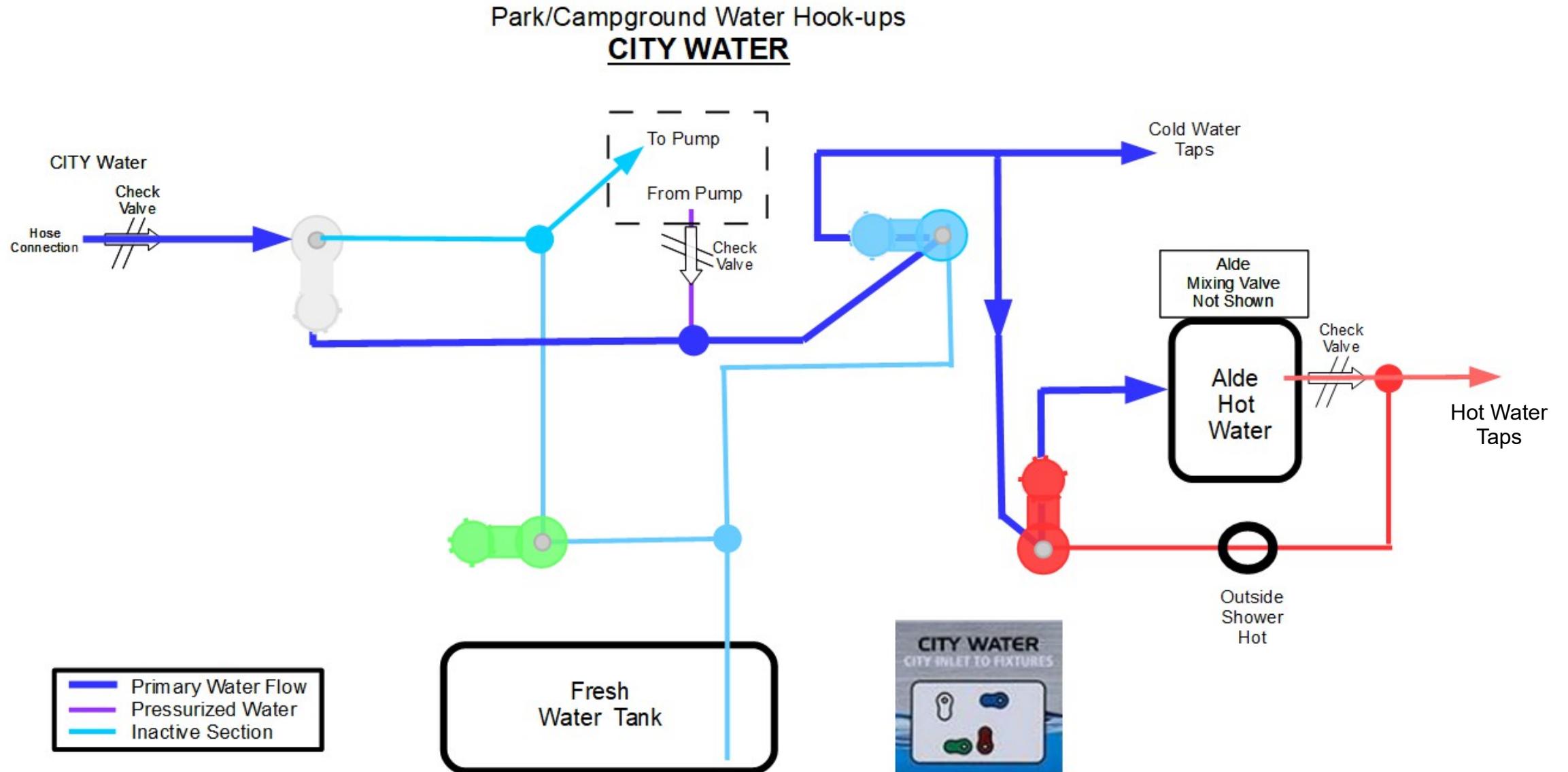
## 1.1 Nautilus Handle and Piping Overview



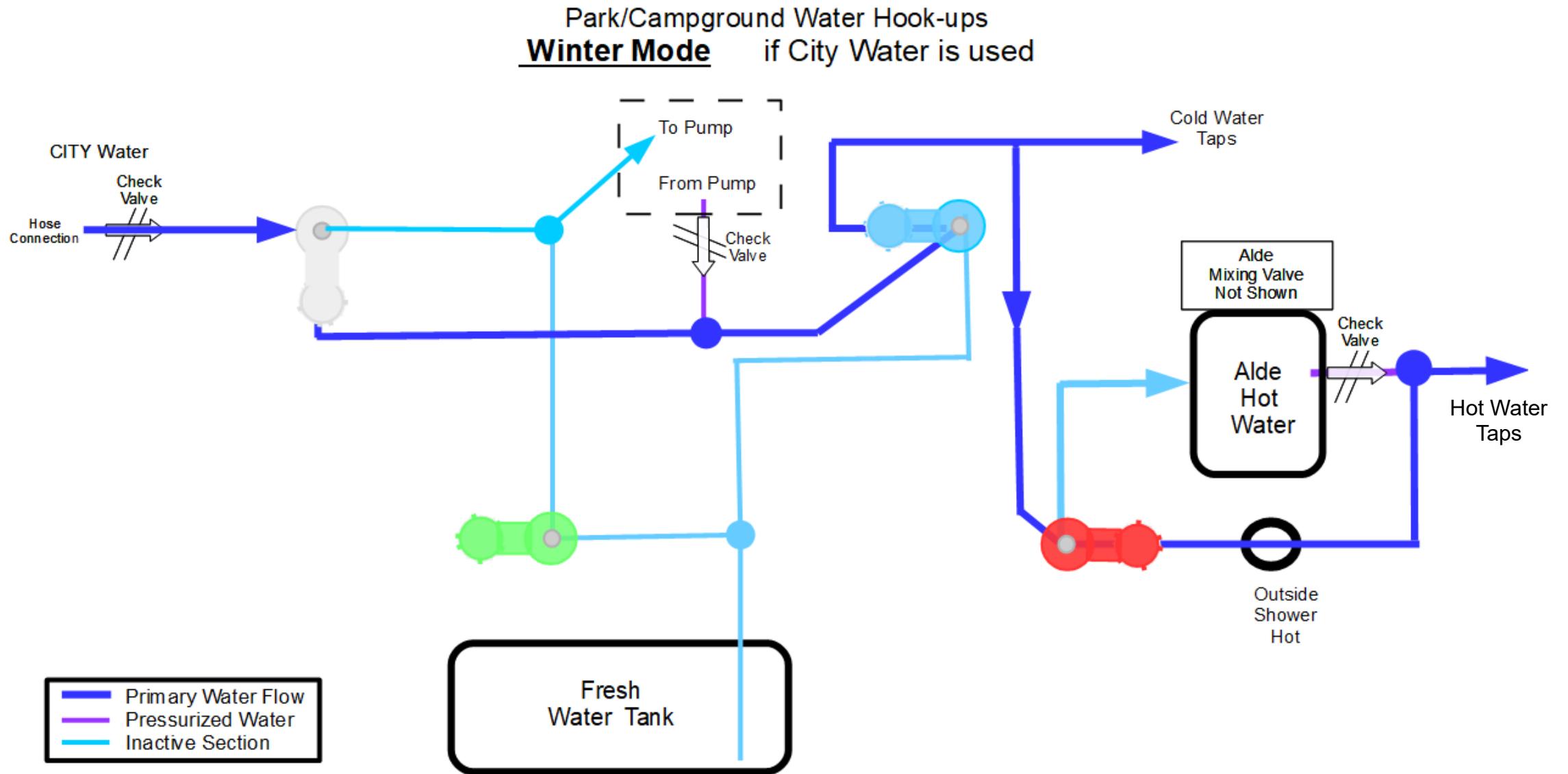
## 1.2 Dry Camping



### 1.3 City Water

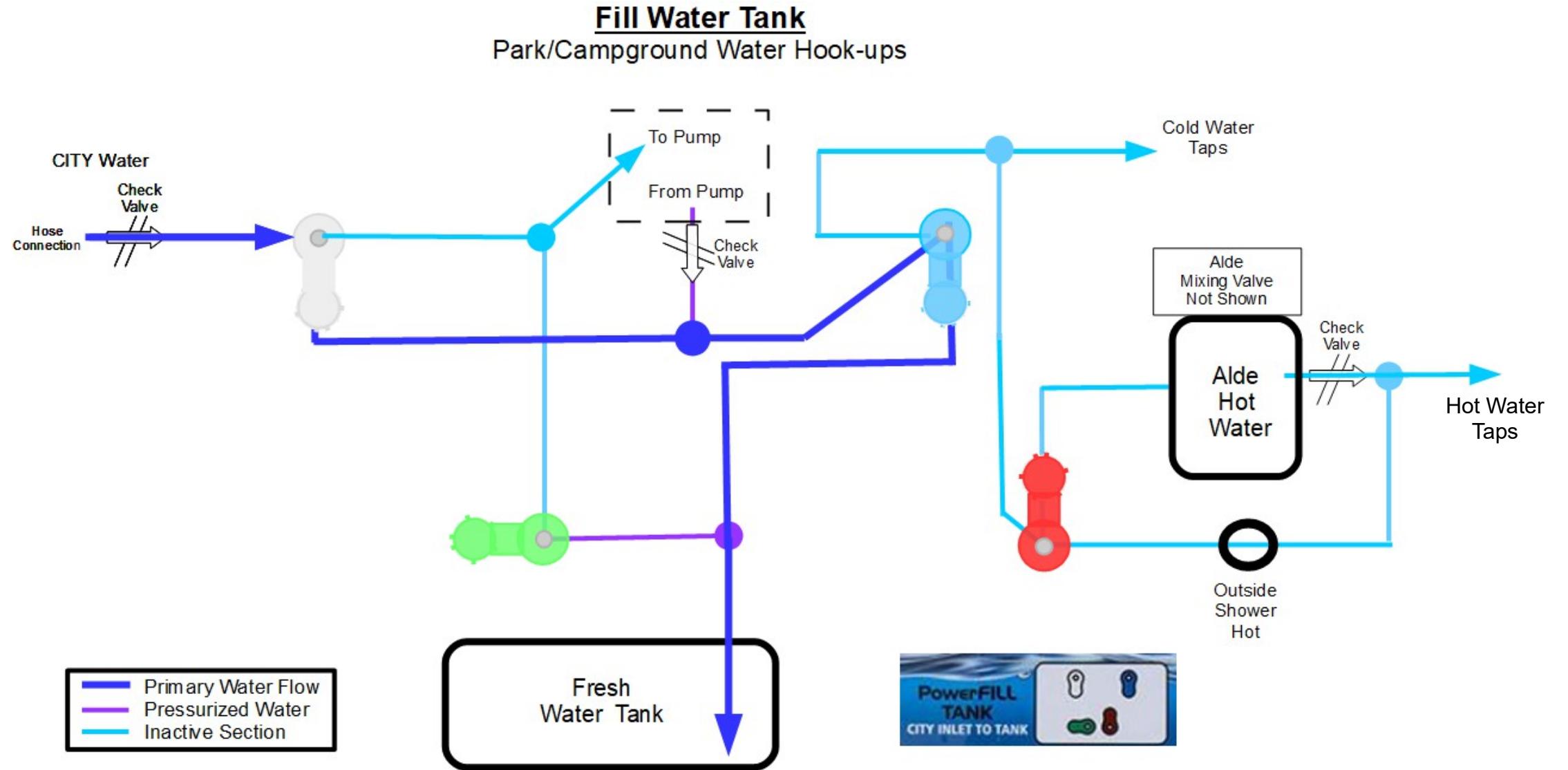


## 1.4 City Water, Winter Mode

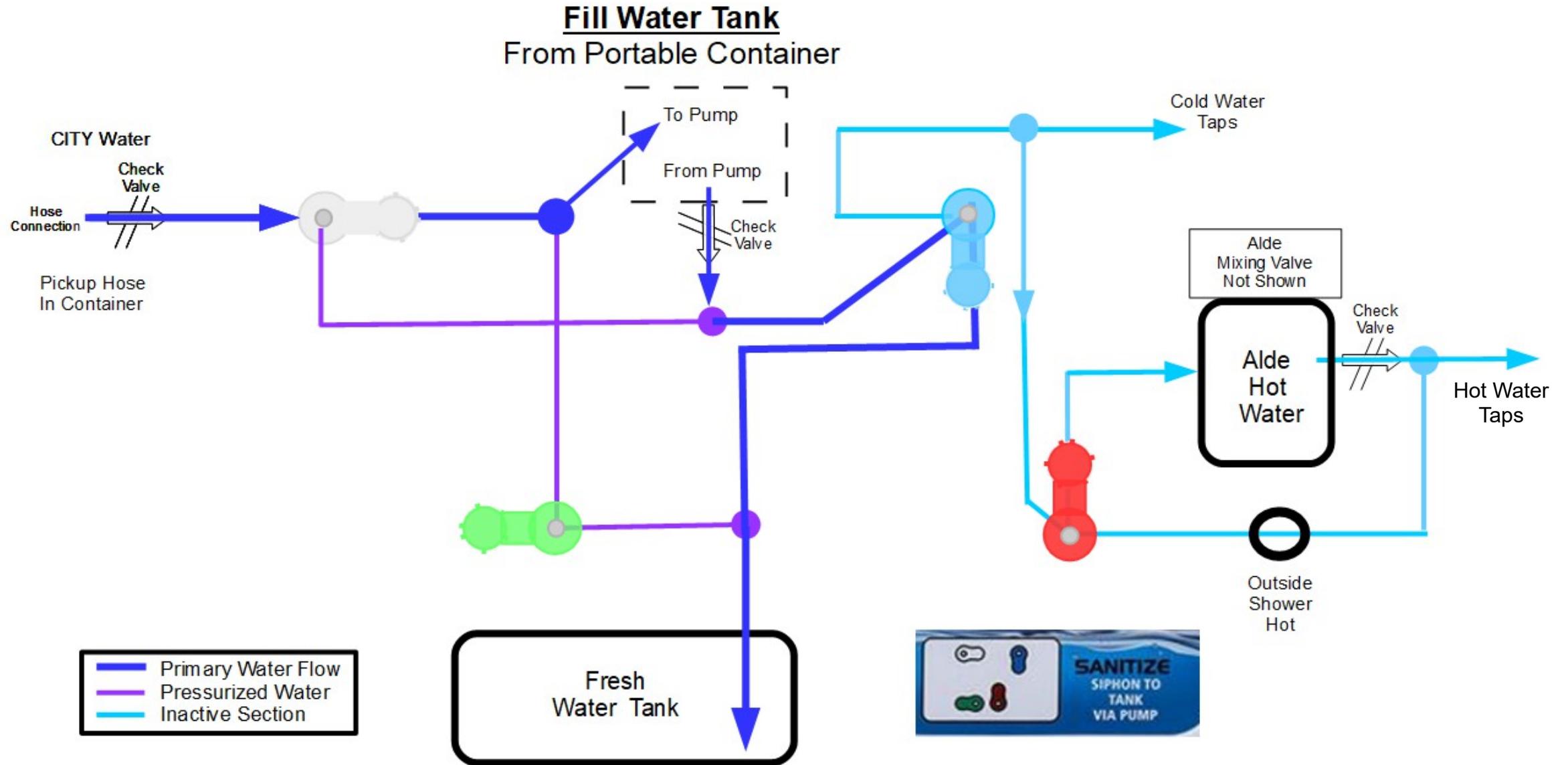


## 1.5 Power Fill Tank

'Power' in reference to City water pressure, not the T@B water pump



## 1.6 Sanitize ( Siphon Fill )



## 1.7 Winterize

### Read Nautilus Users Manual

This Three Step Process assumes RV Water System Antifreeze is pumped into full system

#### **Step 1:**

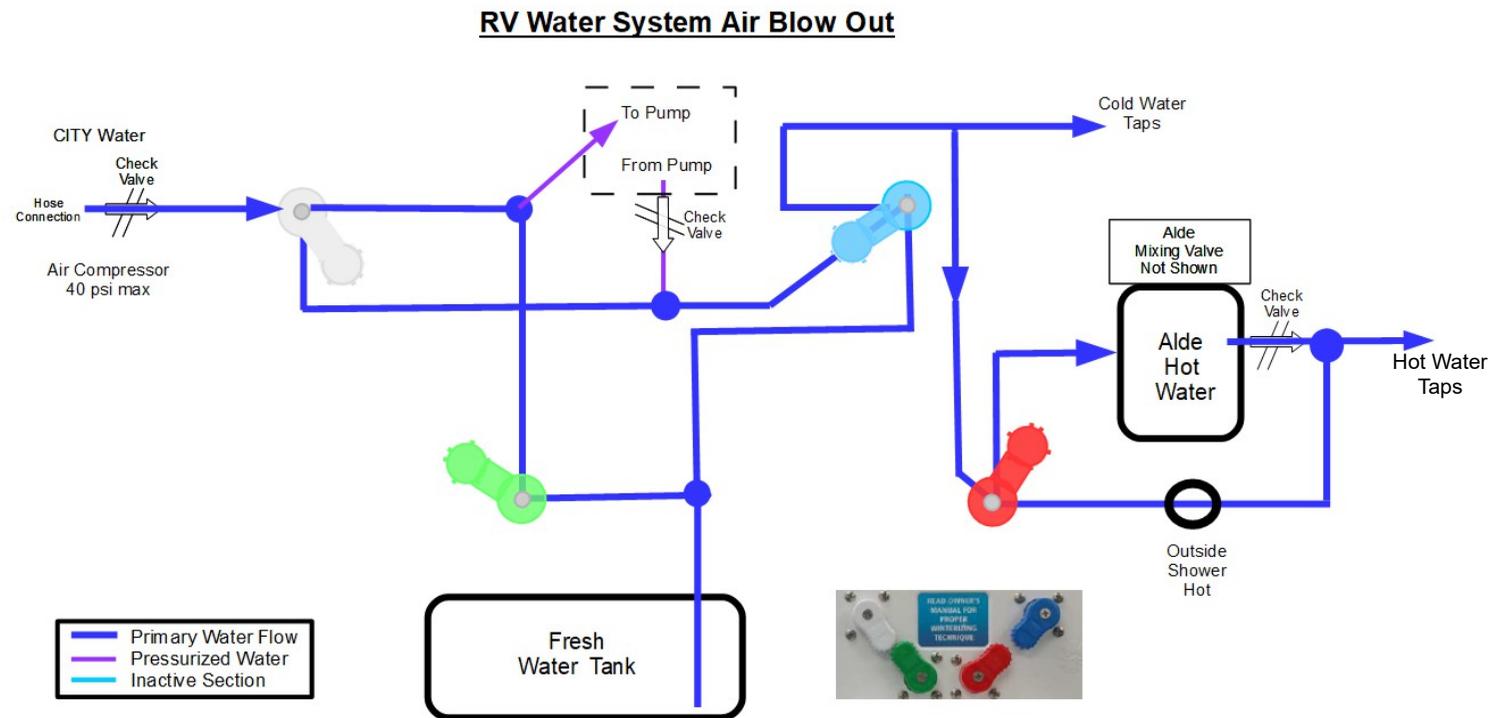
Drain All Water:

- a) Set Handles to Power Fill Position      b) Open all drains; low point, tank, etc.      c) Wait for all water to drain

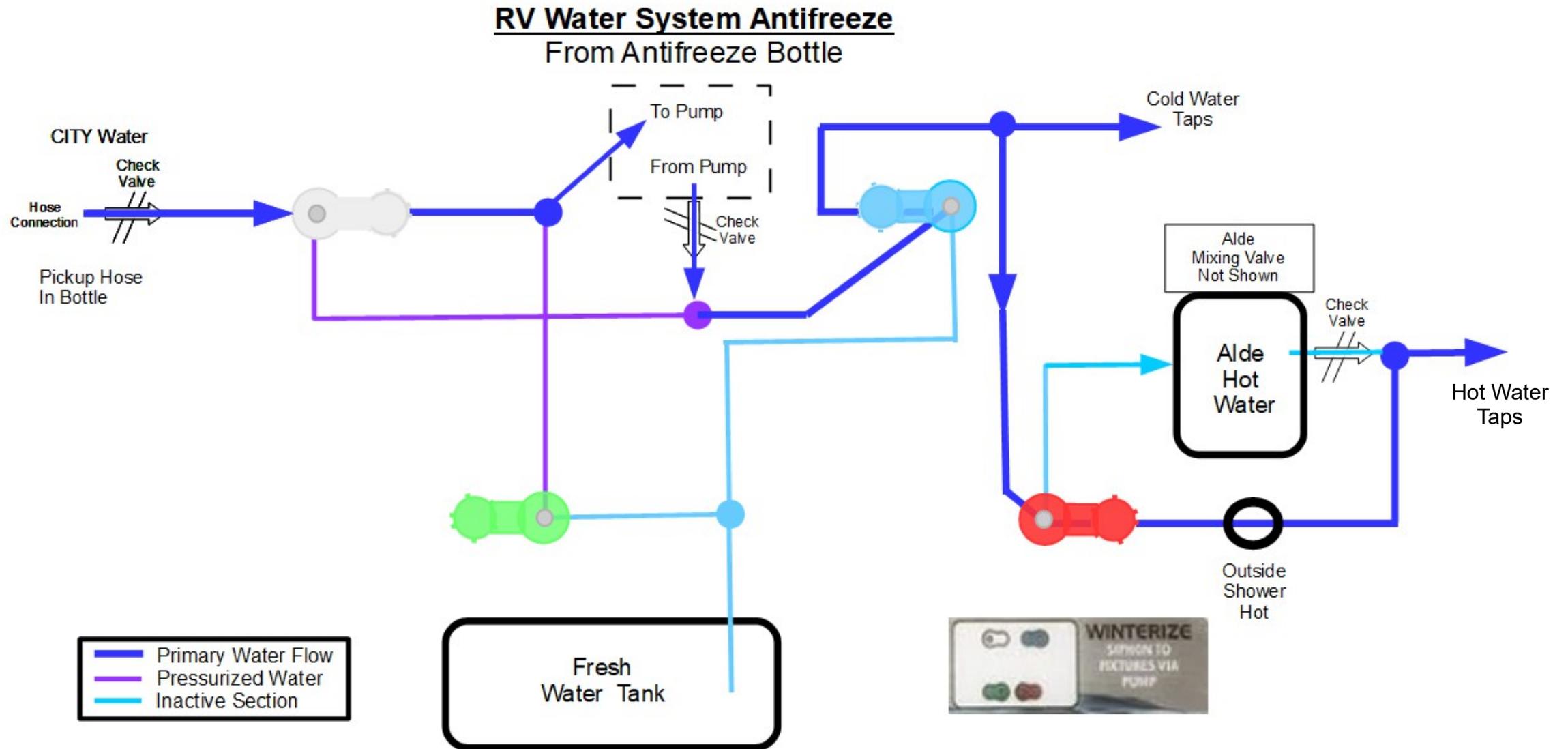
#### **Step 2:**

At least one drain must be open. Read Nautilus Users Manual

This step clears water from Nautilus



**Step 3:** Use Winterize Handles setting to siphon antifreeze into system



## 2.0 Nautilus Primary Water Flow Parts

### 2.1 Panel Warranty Policy

Warranty period is one year from date of retail sale. This warranty only applies to defects of workmanship. Parts must be returned with all warranty claims for inspection or claim will be denied.

#### **DO NOT RETURN ENTIRE PANEL!!**

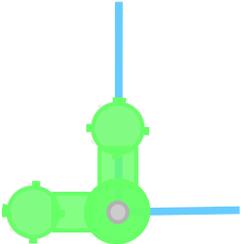
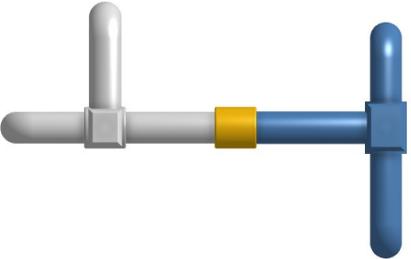
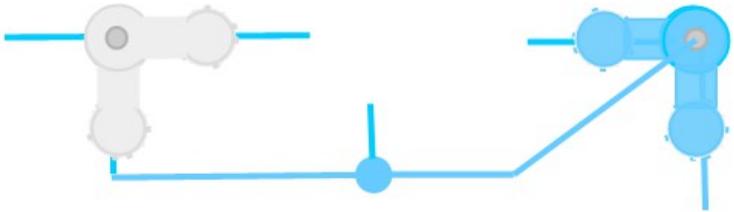
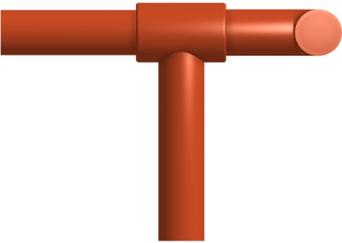
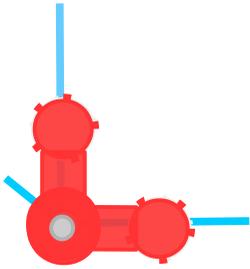
Credit will not be issued for an entire panel. Only freight, parts and labor for individual components in question will be considered (ie valve, coax, handles, and water inlet valve). If entire panel is returned, it will be returned to sender and RGA voided.

Customer must obtain a Returned Goods Authorization (RGA) number from B&B Molders prior to return of goods.

### 2.2 Valve Handles

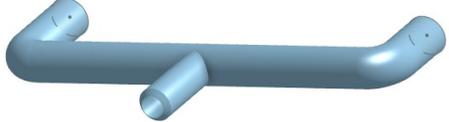
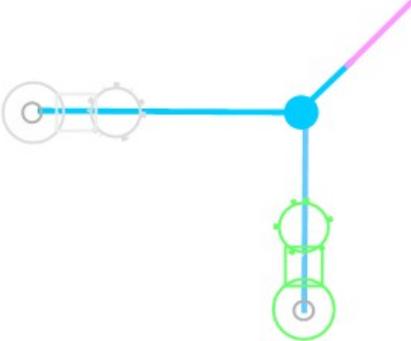
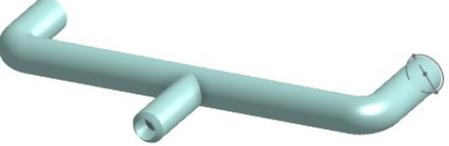
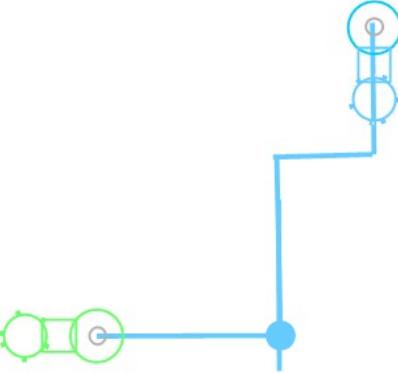
PART #	Description	Function of Attached Valve
TBD	Diverter, Red Handle	<b>RED HANDLE:</b> Receives water from cold water supply line Sideways - water goes to hot water fixtures without going through hot water heater Up - water goes to hot water heater
TBD	Dual Diverter, White & Blue Handles	<b>WHITE HANDLE:</b> Receives water from water inlet on front of panel Sideways - water goes to pump inlet Down - water goes into blue handled diverter <b>BLUE HANDLE:</b> Receives water from the white handle valve/water inlet on front of panel Sideways - water goes to fixtures (cold) Down - water will go to or come from fresh water tank
TBD	Ball Valve, Green Handle	<b>GREEN HANDLE:</b> Is an on/off flow through valve that feeds pump from fresh water tank Sideways - water will not flow through valve Up - water will go to or come from fresh water tank

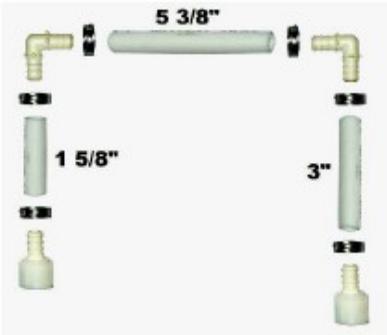
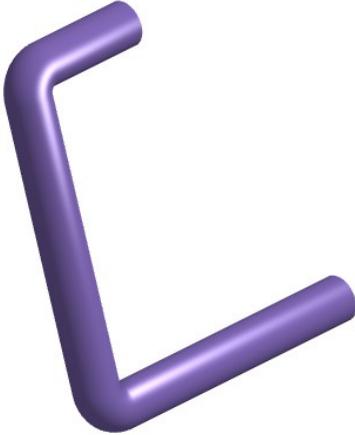
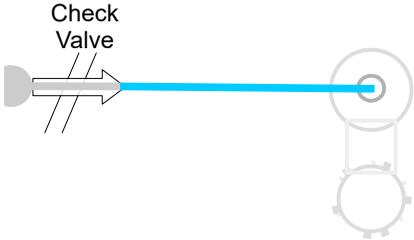
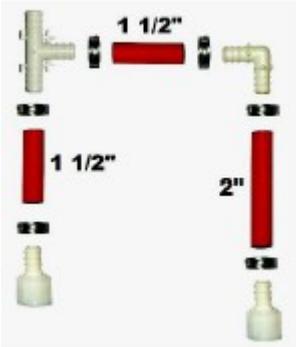
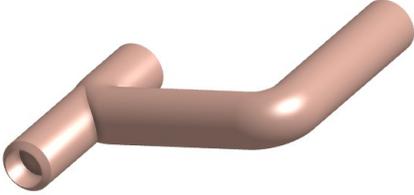
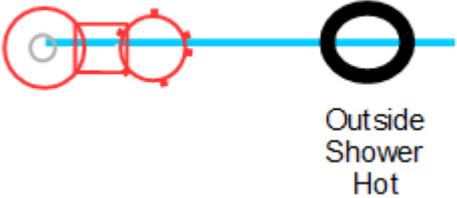
2.3 B&B Molders Diverter Manifolds

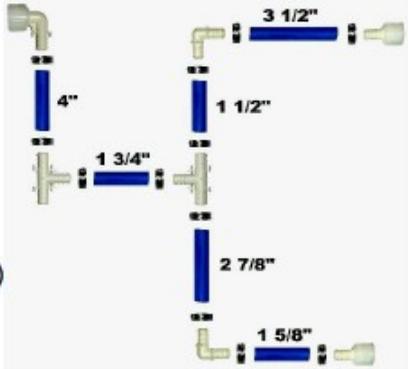
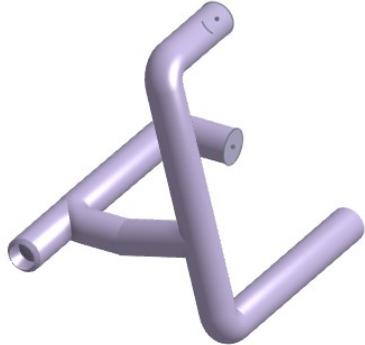
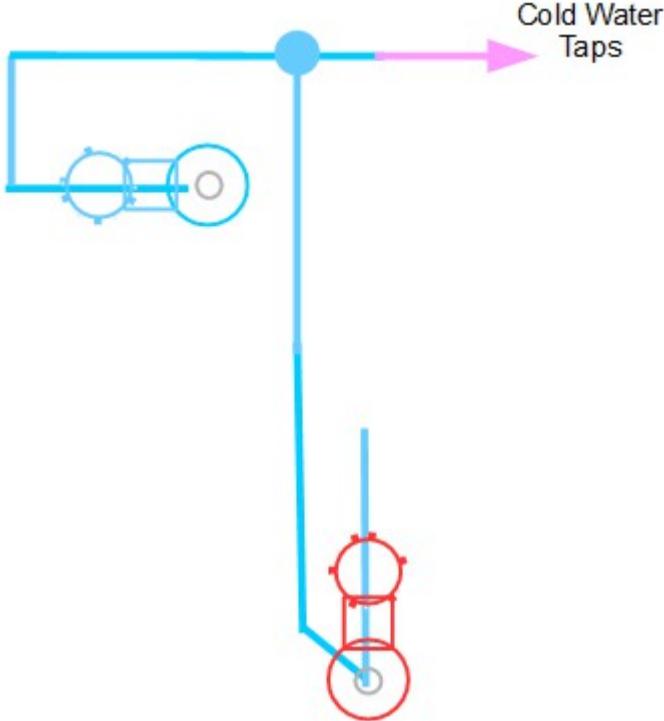
Part # ** Description	B&B Image	3D Model	Handle Position Schematic (reference)
501-008-00007 Ball Value (green)			
501-008-00031 Dual Diverter (white & blue)			
501-008-00032 Diverter (red)			

\*\* B&B Molders form F-148.0 Rev: B

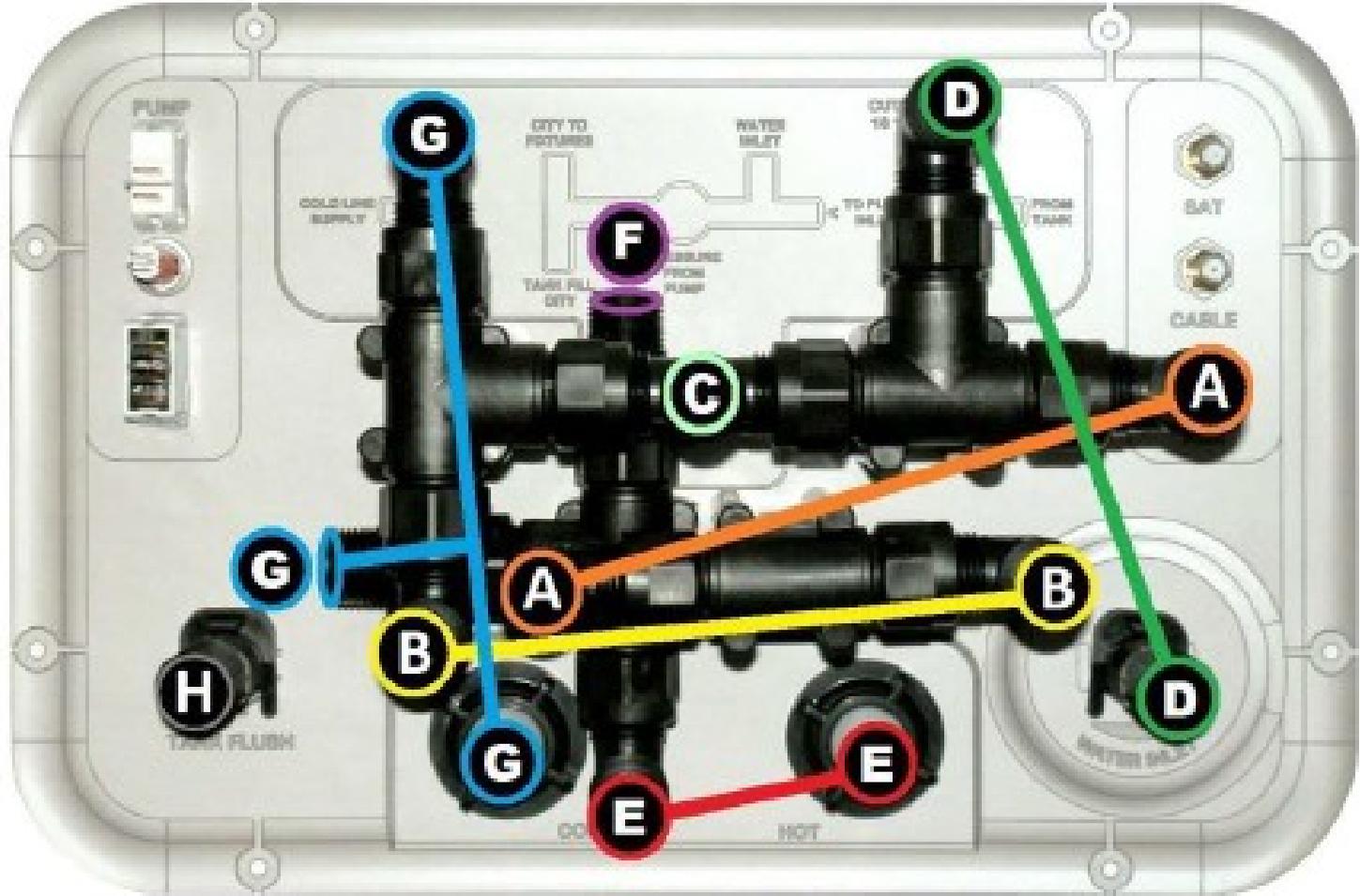
2.3 Nücamp Supplied/Built Manifolds

Part Description	B&B Image	3D Model	Handle Position Schematic (reference)
Pump Inlet Path - A -			
To Fresh Tank Path - B -			

Part Description	B&B Image	3D Model	Handle Position Schematic (reference)
Water Inlet without filter Path - D -	 <p>5 3/8"</p> <p>1 5/8"</p> <p>3"</p>		 <p>Check Valve</p>
Hot H2O Line Path - E -	 <p>1 1/2"</p> <p>1 1/2"</p> <p>2"</p>		 <p>Outside Shower Hot</p>

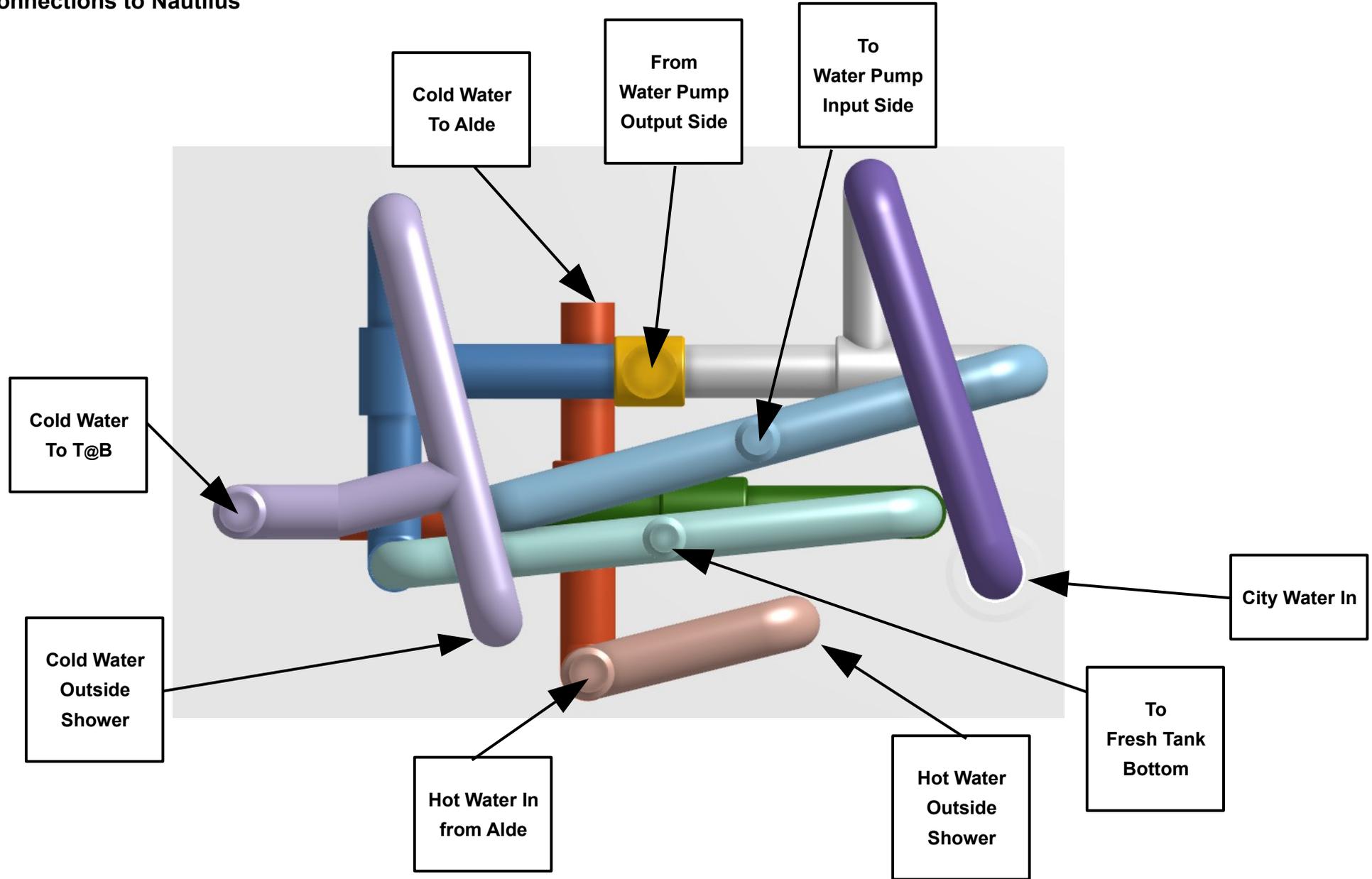
Part Description	B&B Image	3D Model	Handle Position Schematic (reference)
Cold H2O Line Path - G -			

2.3 B&B Molders Installation Pipe/Manifold Reference Letters



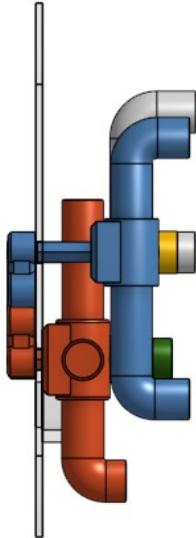
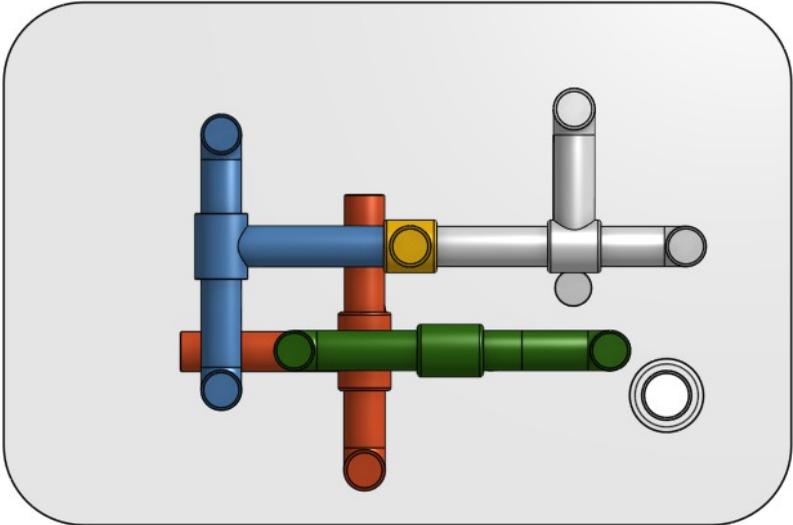
### 3.1 T@B Water System Connections to Nautilus

## 3.0 3D Color Images of Nautilus Backside

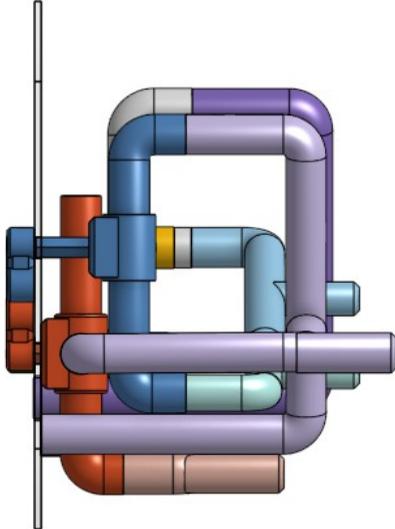
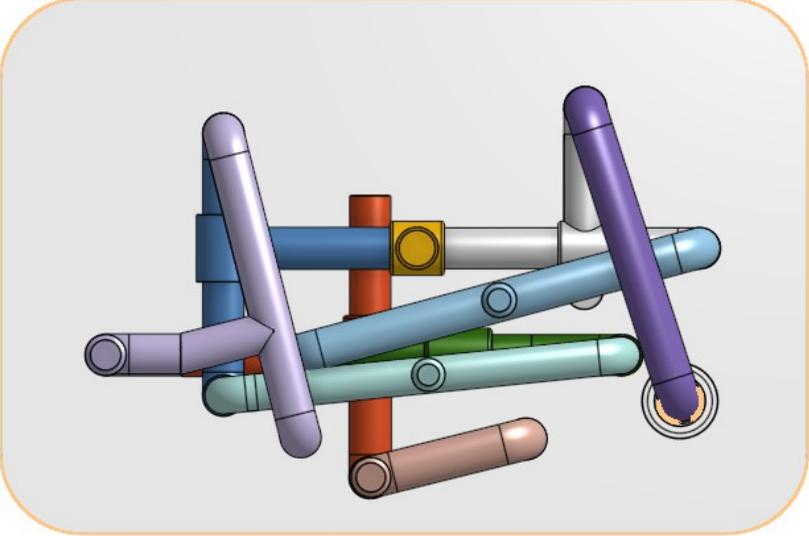


3.2 Nautilus & NüCamp Manifold Back & Side View

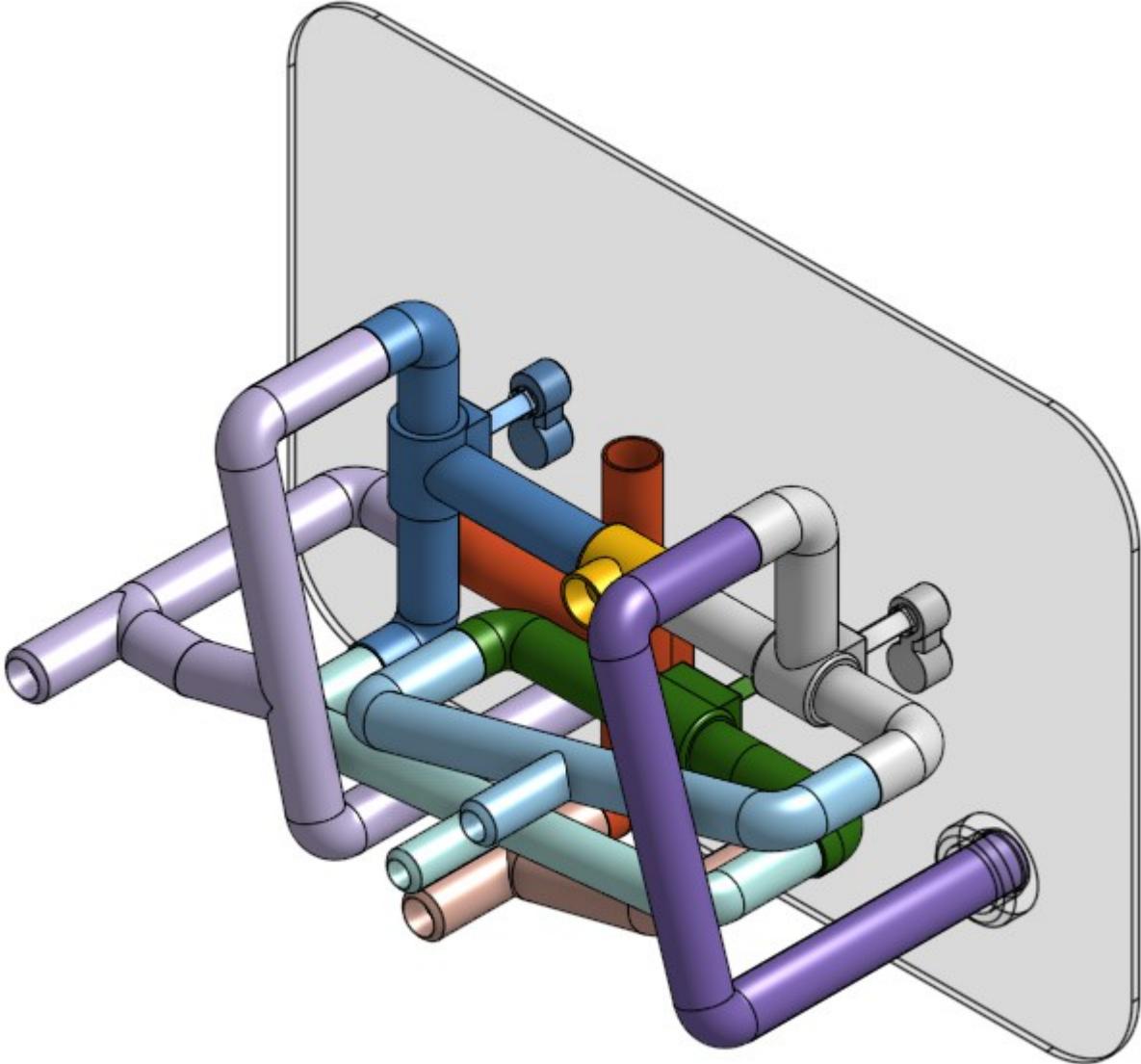
B&B Molders Diverters

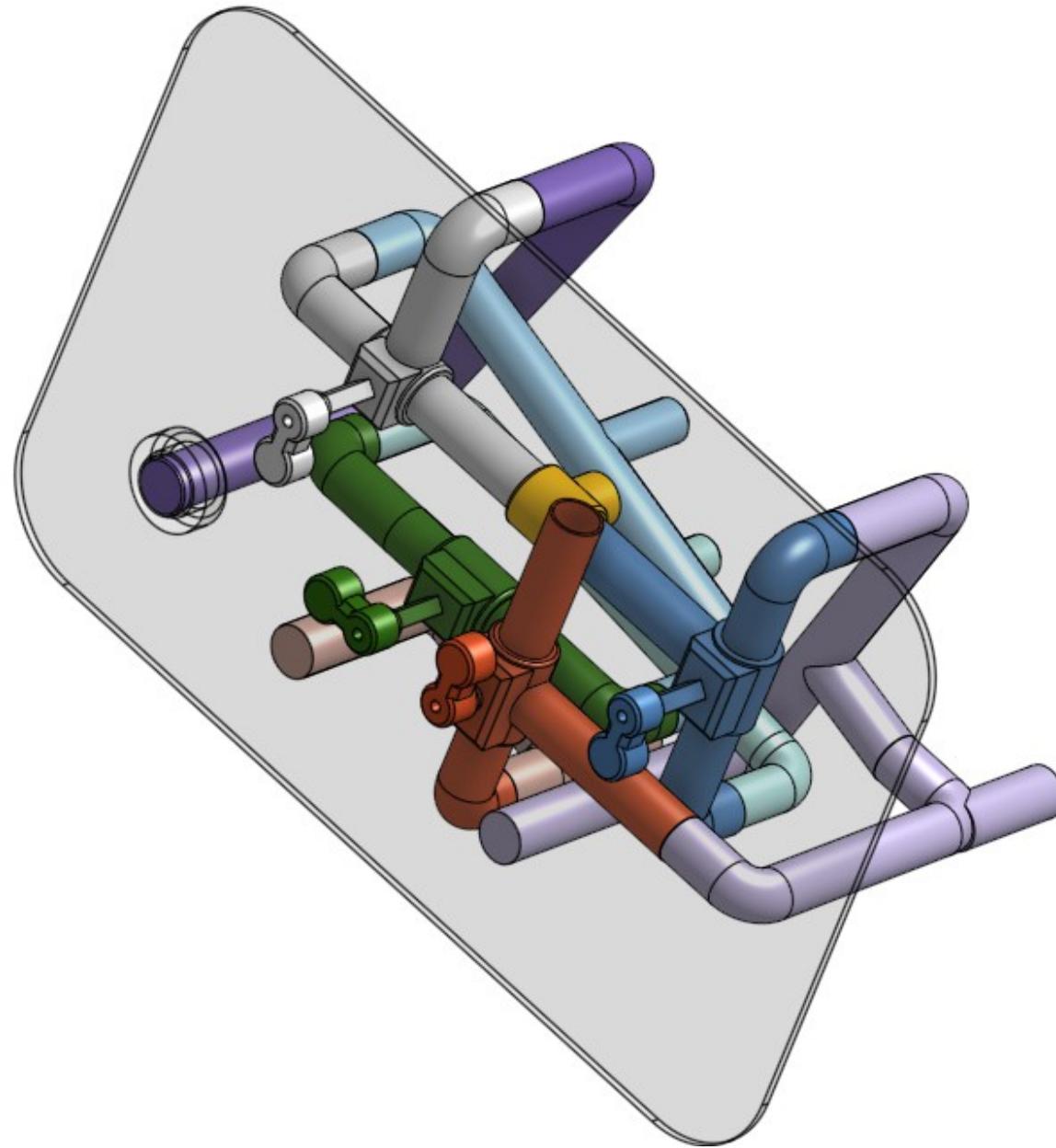


NüCamp Items Added



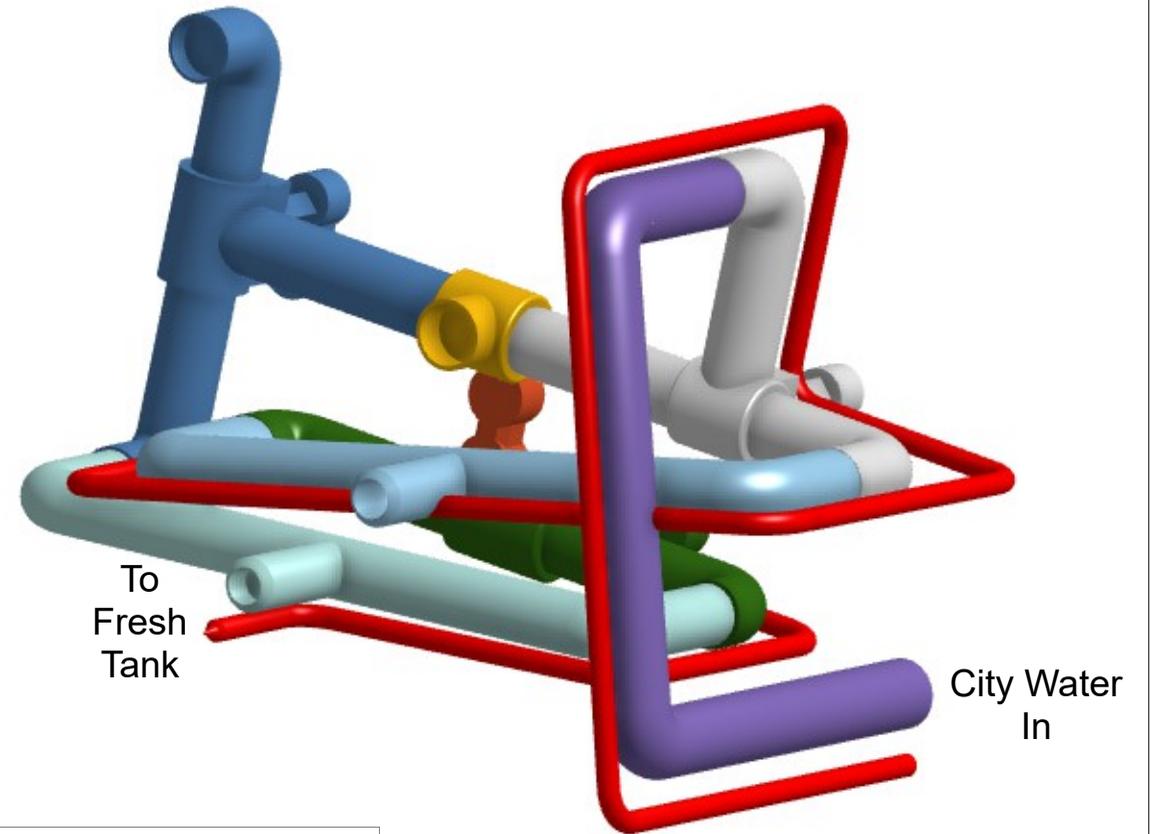
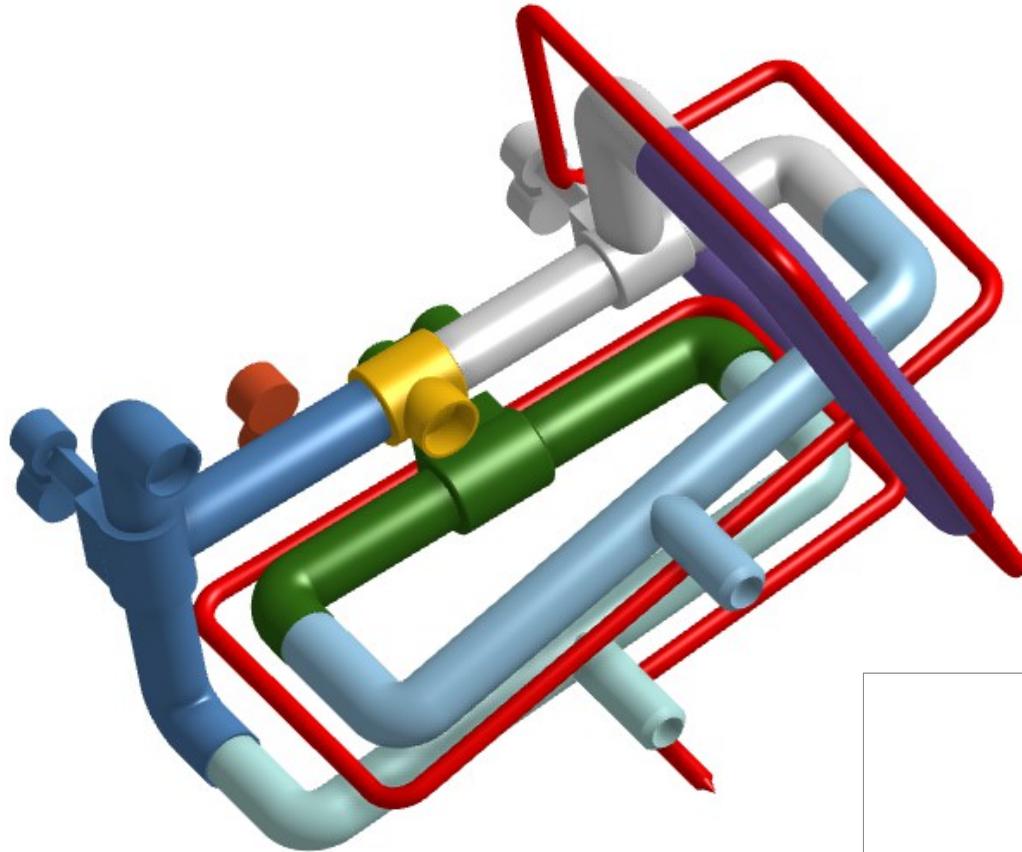
3.3 Isometric View





### 3.4 Power Fill, City Water into Fresh Tank, Water Flow

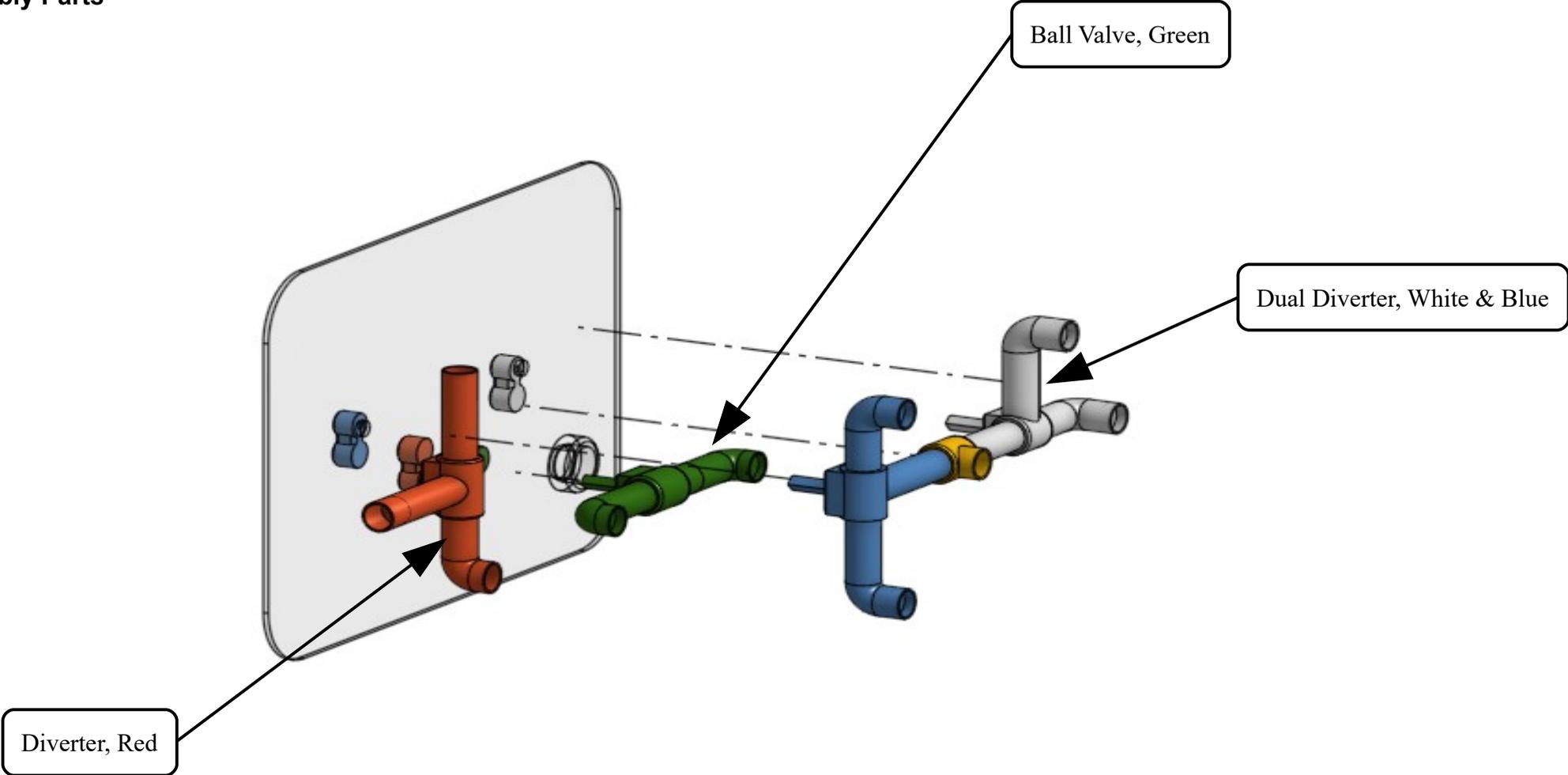
Blue Handle Valve Stopping Water to TaB  
& Water Pump Outlet Check Valve Pressurize  
Nautilus to allow water flow to Fresh Tank



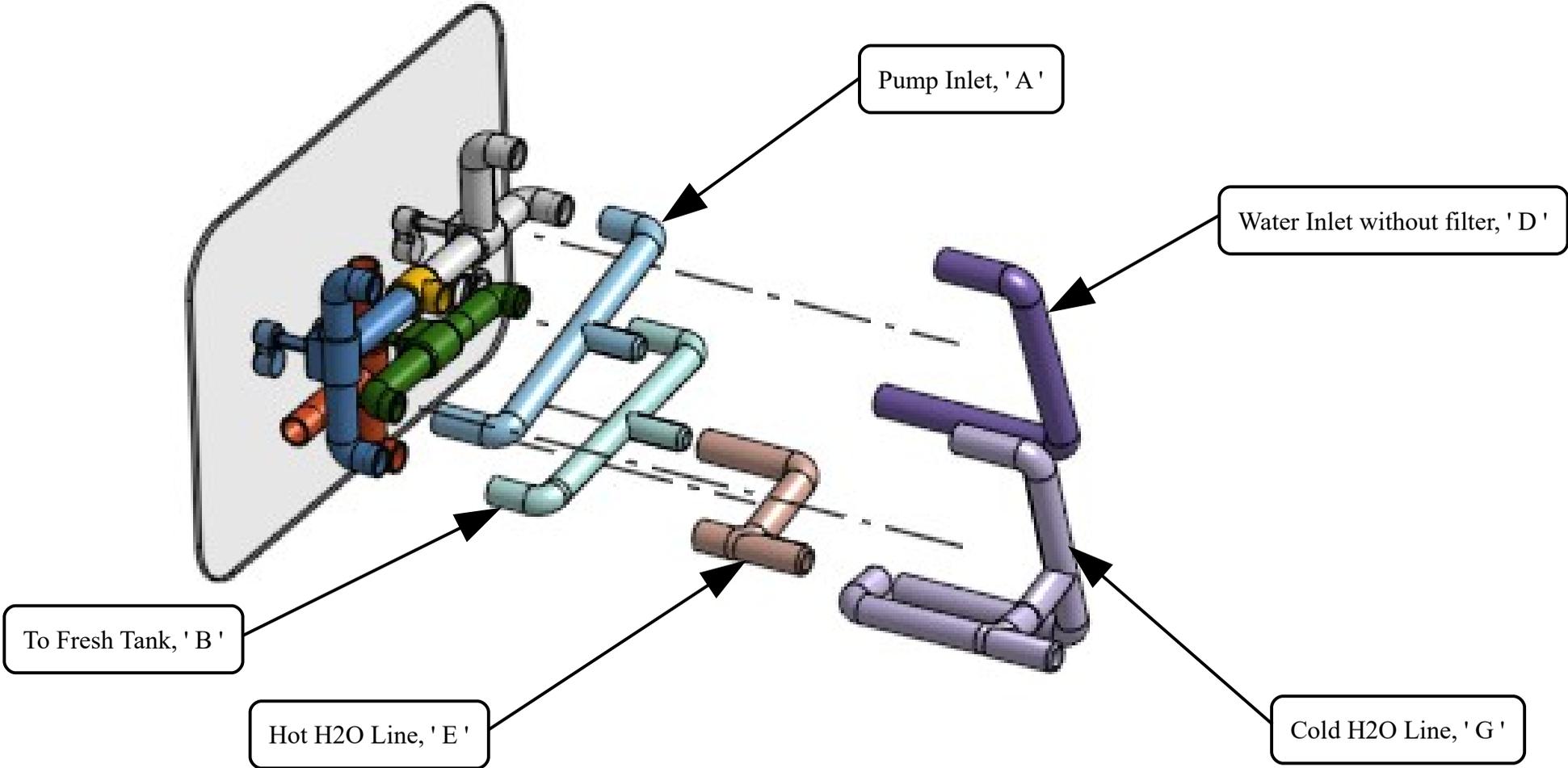
Red Handle Manifold  
Cold H2O Line  
Hot H2O Line  
Not Shown for Clarify

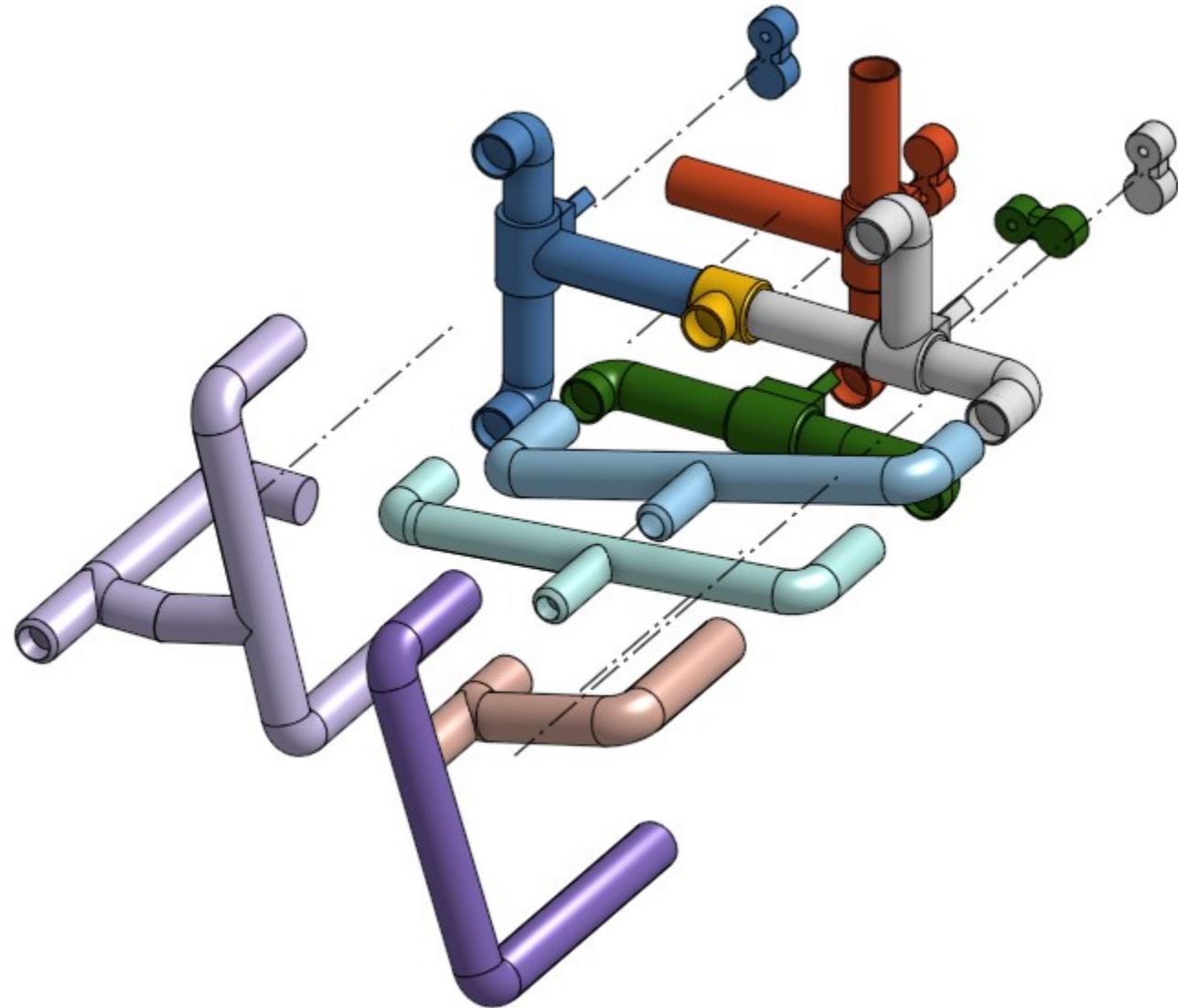
3.5 Nautilus Exploded View

Nautilus Assembly Parts



NüCamp Built parts



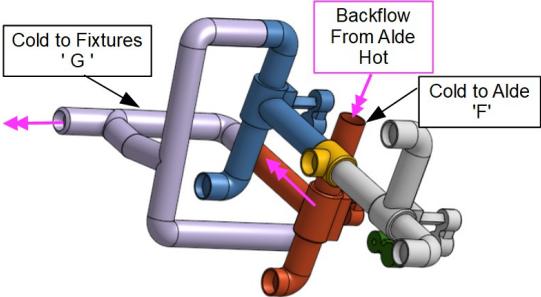


### 3.0 Reference Materials / Notes / Document History

#### 3.1 Reference Materials

Item	Information
1	Nautilus P3 Installation Instructions, B&B Molders. <a href="https://www.bandbmolders.com/index.php/p3-2/">https://www.bandbmolders.com/index.php/p3-2/</a>
2	Nautilus P3 User Instructions, B&B Molders. <a href="https://www.bandbmolders.com/index.php/p3-2/">https://www.bandbmolders.com/index.php/p3-2/</a>
3	Nautilus P1 Repair Instructions, B&B Molders. <a href="https://www.bandbmolders.com/index.php/p1/">https://www.bandbmolders.com/index.php/p1/</a> Information can be used on P3 installations
4	NüCamp 2022 Owners Manual TAB 400, publication TAB400-MAN-002
5	2021 320S Nautilus P2.5 Water Flow Diagrams of Trailer systems and Nautilus; Forum Member brianb posed 12/02/2021 {a really nice set of diagrams }

### 3.1 Notes

Item	Comments
0	<p>Several forum members have commented that the Nautilus is a dream to use and a nightmare to troubleshoot and repair. The design appears to be as simple as possible while the water routing task is far from simple to manage.</p>
1	<p>Alde Hot Water Backflow: {from forum thread}</p> <p>When a loss of pressure occurs hot water backflows from the Alde through the supply line from the Nautilus. Referencing the installation instructions manual, the Alde backflows through line F which then backflows into line G of the Nautilus, and G supplies all the cold water to the cold water fixtures.</p> 

### 3.2 History

Revision	Date	Remarks
v1	11/27/2021	Document was just a few of the schematic diagrams now in Section 1.0. v1 was Titled Nautilus P3 Setting Overview v1 has a few minor errors. V1 should be deleted if in your files.
Drafts v2	Dec-2021	Several cycles of the this format and content. Forum members Snoblett and Denny16 provided document review support.
v2	12/05/2021	Initial release to forum of the full document.
v3	10/29/2022	Forum member geoB request for additional clarity on the P3/Alde Hot Water Distribution; text added to Adle output: Hot Water Taps