



INSTALLATION INSTRUCTIONS



www.bandbmolders.com

58471 Fir Road
Mishawaka, IN 46544
Phone: 574-259-7838
Fax: 574-259-7939



INSTALLATION INSTRUCTIONS

Items Included in System:



[Part #301-046-0001](#)

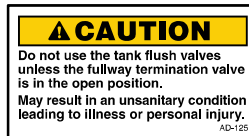
**Atmospheric Vacuum
Breaker/Check Valve**
[Part #501-009-00002](#)



In-Line Check Valve
[Part #501-006-00006](#)



Label
[Part #103-002-00014](#)



Spin Weld - Spray Head
[Part #201-009-00001](#)



OR

ABS Tank - Spray Head
[Part #501-006-00006](#)





INSTALLATION INSTRUCTIONS



Improper installation, operation or servicing this product will result in equipment damage & personal injury. This product should be installed & serviced by qualified technical personnel who have an in-depth knowledge of the construction process and potential hazards of this type of system.

- All B&B installed fittings are torqued to factory settings. Loosening or tightening these connections will result in potential leakage or damage voiding warranty consideration.
- All plumbing connections made to this product during installation should be hand tight plus ¼ turn. **DO NOT** over-tighten!!
- **DO NOT** "operate" equipment at power levels other than what is specified on equipment serial tag & data plate.
- Make sure tank fittings for black water tank flushing (ABS Tank & Rotomolded) are installed per instructions to avoid potential damage.
- **DO NOT** install panel with plumbing in a binding condition. Plumbing must have necessary room to move freely when panel is secured to mounting substrate.
- Double check ALL factory installed swivel fittings to hand tight plus ¼ turn due to potential loosening.
- OEM Manufacturer to provide user instructions clearly advising proper winterizing techniques. Damage to system due to incorrect winterizing techniques voids all warranty consideration.
- B&B Molders is not responsible for damage caused to other products connected to this system. It is the O.E.M. Manufacturer's responsibility to ensure plumbing is run to correct locations.
- Proper venting of freshwater holding tank is responsibility of RV manufacturer. (See B&B Power Vent for safe venting options.) Under sized vents may result in serious damage.
- Special rules apply for any warranty claim or submission. Please contact B&B Molders for further information.
- Do not use countersink headed screws due to potential cracking. Use only #8 pan headed screws.
- System must be installed in a clean environment at O.E.M. free of dust and debris. Foreign contaminants have been proven to create leakage conditions.

Tank Flush

- **DO NOT** over-tighten swivel fitting to threaded water inlet connection. Over-tightening may result in stress cracking to plastic threads.
- **DO NOT** plumb Atmospheric Vacuum Breaker/Check Valve (Vac/Check) in a binding condition that puts stress on part. Plumbing should be securely fastened to permanent structure.
- B&B strongly recommends installing Vac/Check within 6' – 8' of water inlet due to low pressure conditions.
- Vac/Check must be installed in an easily accessible location to end user.
- Vac/Check assembly must be plumbed in proper direction of flow & orientation.
- Working pressure per ASSE #1001 is 125 psi but **NOT LESS THAN** 8 psi.
- Spin weld fitting/sprayer must be installed according to Standard Plastic Welding Guidelines.

IMPORTANT: FAILURE TO FOLLOW THESE INSTRUCTIONS FOR INSTALLATION OF OUR PRODUCT WILL FORFEIT ANY WARRANTY CONSIDERATION.





INSTALLATION INSTRUCTIONS

IMPORTANT!!

NEVER push check valve on "CITY WATER" connection with pressure in line. This **WILL** cause irreparable damage to the check valve function.



58471 Fir Road, Mishawaka, IN 46544
Phone: (574) 259-7838 Fax: (574) 259-7939
www.bandbmolders.com



INSTALLATION INSTRUCTIONS

NautiDock Handle Position and Valve Routing Information

GREEN HANDLE: Receives water from WINTERIZE / SANITIZE inlet on front of panel

Sideways - water goes from inlet to pump.



Down – water goes to fresh water tank



BLUE HANDLE: Receives water from CITY WATER CONNECTION inlet on front of panel

Sideways - water goes to fixtures (cold)



Down – water goes to or from fresh water tank





INSTALLATION INSTRUCTIONS

CONDENSED INSTRUCTIONS FOR QUICK REFERENCE

1. Cut a 6" x 11 $\frac{1}{8}$ " opening in sidewall and feed necessary connections through opening.
2. Connect **(PUMP INLET)** harness **A** to back of NautiDock Panel.
3. Connect **(FRESH TANK)** harness **B** to back of NautiDock Panel.
4. Connect **(PRESSURE FROM PUMP)** harness **C** to back of NautiDock Panel
5. Connect **(WINTERIZE INLET)** harness **D** to back of NautiDock Panel.
6. Connect **(COLD H2O LINE)** harness **E** to back of NautiDock Panel.
7. Connect plumbing line running from **(TANK FLUSH)** **F** to bottom of listed **(VAC/CHK)**.
8. Connect necessary coaxial cable(s) to appropriate connection identified on bottom right panel and hand tighten.
9. Connect power service to terminals on back of pump switch, located on top middle panel. Make sure wiring connection is routed correctly for two switch operation.
10. Apply putty tape or foam gasket to entire back of NautiDock flange Make sure mounting holes are covered.
11. Apply silicone sealant around city water inlet, tank flush inlet, winterize inlet and base of diverter valves (as shown).
12. Secure NautiDock in sidewall using (10) #8 self-tapping, pan-head operation.
13. Cap seal outside perimeter of NautiDock for waterproofing

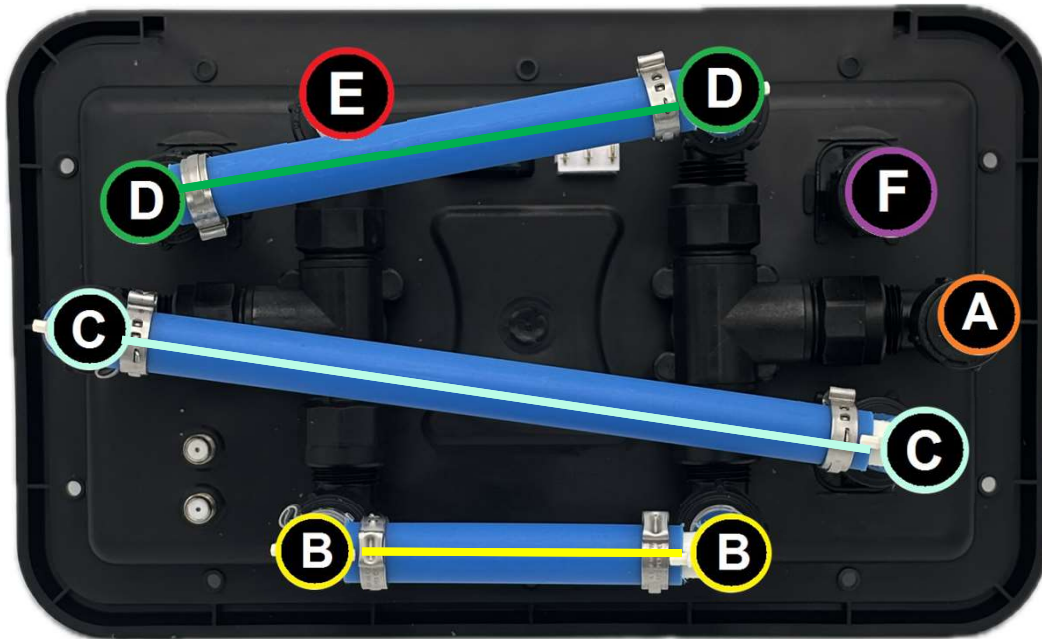
****Connections shall be hand tight + ¼ turn. Do NOT over tighten as stress cracking may result**





INSTALLATION INSTRUCTIONS

FULL HARNESS ASSEMBLY



HARNESS INFORMATION:

- A** : Pump Inlet
- B** : To Fresh Tank
- C** : Pressure from Pump
- D** : Winterize Inlet
- E** : Cold H2O Line
- F** : Tank Flush





INSTALLATION INSTRUCTIONS

A PUMP INLET (PLUMBING HARNESS)

Items Needed:

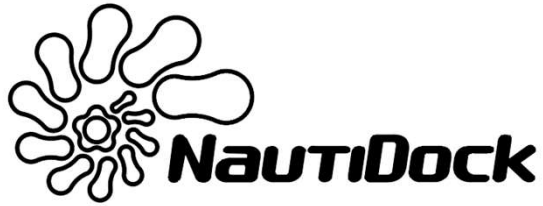
- (1) Straight Swivel Fittings



To connect plumbing line running to pump inlet, screw swivel fitting onto diverter valve **A** (TO **PUMP**) as illustrated. This line will run directly to “IN” side of water pump.

**Connections shall be hand tight + ¼ turn.
Do NOT over tighten as stress cracking may result.**





INSTALLATION INSTRUCTIONS

B TO FRESH TANK (PLUMBING HARNESS)

Items Needed:

- (2) Straight Swivel Fittings
- (1) 90° Inline Elbow
- (1) Inline Tee
- (6) Oetiker Clamps
- 1/2" Pex Tubing Lines:
 - ♦ (2) 1 1/2", (1) 3 1/2"



To connect fresh tank plumbing harness, screw swivel fittings onto diverter valves **B** (TANK FILL & TANK OUT) as illustrated. This line will run directly to bottom of fresh water tank.

**Connections shall be hand tight + 1/4 turn.
Do NOT over tighten as stress cracking may result.**





INSTALLATION INSTRUCTIONS

Ⓒ PRESSURE FROM PUMP (PLUMBING HARNESS)

Items Needed:

- (1) 90° Inline Elbows
- (1) Inline Tee
- (2) Straight Swivel Fittings
- (6) Oetiker Clamps
- 1/2" Pex Tubing Lines:
 - ◆(2) 1 1/2" ,(1) 8"



To connect pressure from pump plumbing harness, screw swivel fittings onto diverter valves (**WATER INLET & FROM WATER**) Ⓒ as illustrated. This line will run directly to “**OUT**” side of water pump.

**Connections shall be hand tight + 1/4 turn.
Do NOT over tighten as stress cracking may result.**



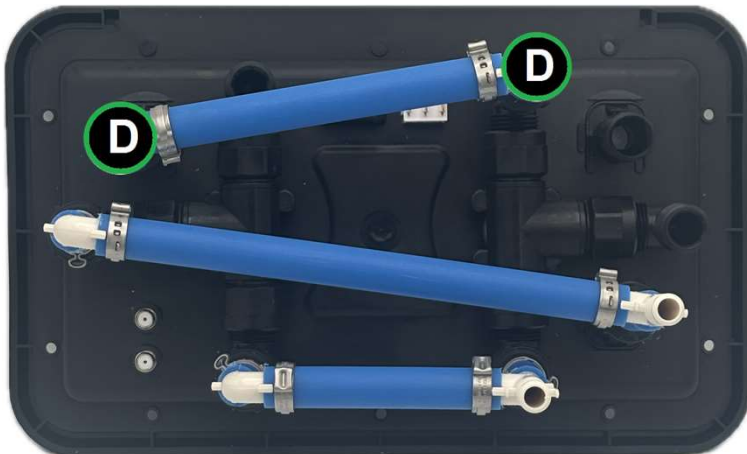


INSTALLATION INSTRUCTIONS

D WINTERIZE INLET (PLUMBING HARNESS)

Items Needed:

- (2) Straight Swivel Fittings
- (2) 90° inline elbows
- (6) Oetiker Clamps
- 1/2" Pex Tubing Lines:
 - (2) 1 1/2", (1) 5 1/2"



To connect Winterize Inlet plumbing harness, screw swivel fittings onto diverter valves **D** (**WINTERIZE & FROM WINTER**) as illustrated.

**Connections shall be hand tight + 1/4 turn.
Do NOT over tighten as stress cracking may result.**



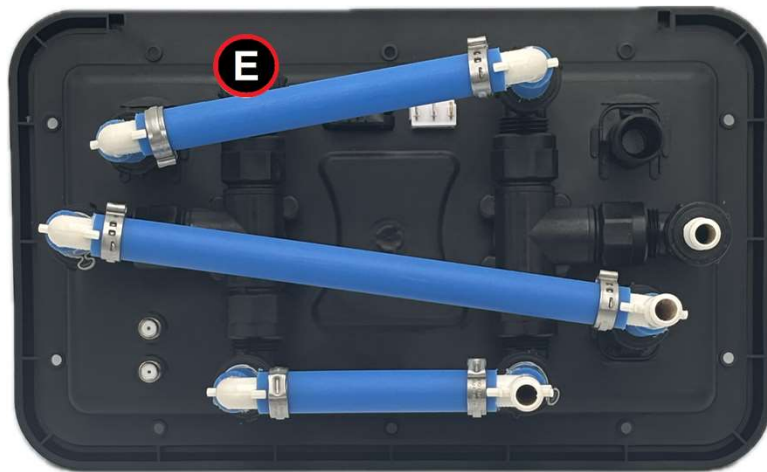


INSTALLATION INSTRUCTIONS

E COLD H2O LINE (PLUMBING HARNESS)

Items Needed:

- (1) Straight Swivel Fitting



To connect cold water plumbing line, screw swivel fitting onto diverter valve **(CITY)** as illustrated. **E** This line will supply cold water.

**Connections shall be hand tight + ¼ turn.
Do NOT over tighten as stress cracking may result.**





INSTALLATION INSTRUCTIONS

F TANK FLUSH INLET (PLUMBING HARNESS)

Items Needed:

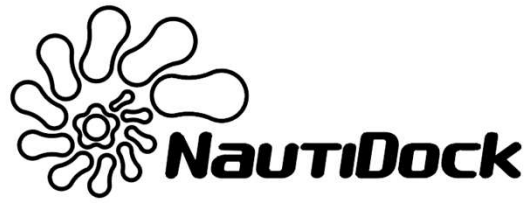
- (1) Straight Swivel Fittings



To connect tank flush plumbing line, screw swivel fitting onto **F** (TANK FLUSH INLET) as illustrated. This line will run directly to atmospheric vacuum breaker.

**Connections shall be hand tight + ¼ turn.
Do NOT over tighten as stress cracking may result.**





INSTALLATION INSTRUCTIONS

SIDEWALL CUTOUT

9. Cut a 6" x 11 $\frac{1}{8}$ " opening in sidewall and feed necessary connections through opening.



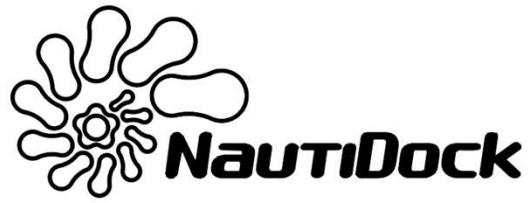


INSTALLATION INSTRUCTIONS

SEALING REQUIREMENTS

10. Apply putty tape or foam gasket to entire back of NautiDock flange. Make sure mounting holes are covered.



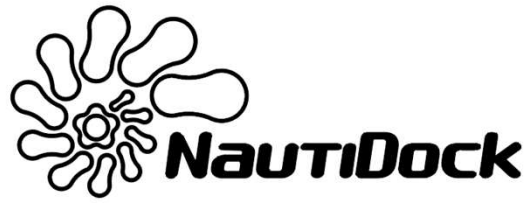


INSTALLATION INSTRUCTIONS

SEALING REQUIREMENTS

11. Apply silicone sealant around city water inlet, tank flush inlet, winterize inlet and base of diverter valves (as shown).





INSTALLATION INSTRUCTIONS

SIDE WALL MOUNTING AND CAP SEALING

12. Secure NautiDock in sidewall using (10) #8 self-tapping, pan-head operation.
13. Cap seal outside perimeter of NautiDock for waterproofing

