



## TECH TIP COOLING SYSTEM

### BULLETIN TT002-16

› PART NUMBER:  
91002-8

› MAKE:  
All makes with a water pump

› MODEL:  
All models with a water pump

› YEAR:  
All years with a water pump

› ENGINE:  
All engines with a water pump

## PowerClean™ Flush Tool - Backflow Prevention

A **Backflow Preventer (BP)** is a required component of the POWERCLEAN Flush Tool which is used to safely discharge back pressure. This is done to protect the water supply system piping from potential pressure damage as well to the potable (drinking) water from potential contamination. BPs have become a building code standard in many areas today but since there is no guarantee a BP exists at every location where this tool may be used; a BP has been included with every tool kit.

- › The BP must be used to protect the water supply system.
- › The BP should be used at the spigot end of the water supply hose.
- › The BP will discharge water (backpressure); this is normal operation.
- › Excessive discharge from BP indicates air pressure set too high.

#### PROBLEM:

Regardless of what pictures and/or videos you may have seen, the BP is not intended for use at the gun end of the water supply hose. Unfortunately, this is a common problem and may cause “trouser soaking”. This is not a design flaw, “leak”, or an inherent problem with the tool; it is just a simple set up error.

#### SOLUTION:

Move the BP to the spigot end of the water supply hose.

#### PROBLEM:

When connecting the air supply line there is an immediate and large amount of discharged water from the BP. This is generally a result of the air pressure set too high.

#### SOLUTION:

Point the tool in a safe direction and pull the trigger; while operating and observing the pulse, reduce the air regulator pressure until the pulse begins to weaken. Then increase the regulator pressure only to return to a strong pulse, no higher. When releasing the trigger, the BP discharge will now be much less (considered normal).

- › The Powerclean Flush Tool is not a pressure blaster. More air pressure is not better. This tool is converting the pressure energy into kinetic pulse intensity also known as velocity-energy.
- › The air “ON-OFF” function and the primary method to limit BP ischarge is to: **(1) only connect the air line when ready to actually pull the trigger and work with the tool, and then to (2) immediately disconnect the air line when not working with the tool.**



SUPPLY HOSE BACKFLOW  
PREVENTER PART # 91002-8.



POWER CLEAN FLUSH  
TOOL KIT PART # 91002.

**PROBLEM:**

Unique situations create issues with the BP being used at the spigot end of the water supply hose; such as indoor water connection and adjoining machinery.

**SOLUTION:**

In such a case we can only recommend to wrap a rag around it, put a bucket under it, or find another creative way to control the “spray” and/or capture the outflow. The BP must always be used.

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TECHNICIANS AROUND THE WORLD.

For more information, please contact our Technical Department at 303.744.5651 or [apateam@gates.com](mailto:apateam@gates.com).

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