



Dear {FIRST_NAME|Valued Customer},

It's hard to believe we have burned through half of 2012. We hope you are staying cool during this scorching summer, but check out the sizzling info and money-saving offer in this week's newsletter.

Proud to be your complete source for Test Gauge Accessories

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(*Offer ends August 17th, 2012)



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- Quick Connect Test Fittings
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**All Models Accepted
N.I.S.T. Traceable**

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5 point Gauge Accuracy Verification

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- **Replacement of Filters in Hoses (if Applicable) and Discharge Tubing**
(Replacement of foam insert for 845-5 case only)

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REPAIR TIP

"My customer has a 6" double check valve assembly currently installed on his fire sprinkler system. Our local inspector has requested that he replace the existing assembly with a double check detector assembly. Do we have to replace the entire assembly, or can we just add a metered bypass to the unit?"

Mark: First, it is important that you ask that very question of your local inspector. He is the one that will ultimately approve or deny the modification of the assembly. I would hate to see you go through a lot of work and expense just to be denied approval from your local authority. The reason I bring this up is because some water purveyors may not allow you to make this kind of modification to an assembly. When you retrofit an assembly like this, you are actually creating a new



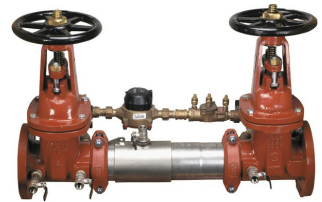
assembly that may require a new model and serial number. It is also important to find out if the manufacturer has the parts and will allow this type of field modification as well.

Doug: We should take a look at the differences between a DCA and a DCDA. The obvious difference is the metered bypass assembly that exists on the DCDA. The bypass consists of a meter, a double check valve device, shut off valves and all the associated piping. The purpose of the bypass is to detect low flows (up to 3GPM) through the assembly. The key to directing the low flows through the bypass and meter is the pressure loss through the mainline assembly. This brings us to the first and second check valves in the mainline assembly. Some manufacturers use a heavier spring load in one or both of the check valves of the mainline DCDA to create more resistance.



Mark: If the DCDA is to work correctly it is critical that it be set up to the original manufacturer specifications.

Be sure to consult the manufacturer or your parts supplier about what is needed to make this change properly. One size does not fit all. The meter that is used must be approved for that assembly. The bypass DCA must also be approved and matched for use with the mainline assembly. The configuration and type of pipe fittings used on the bypass assembly is very



important as well. Please do not forget to verify if the first or second check valves must be replaced on the mainline assembly.

Doug: Some manufacturers offer replacement parts and bypass kits to help retrofit your assembly. They may also offer replacement data plates that will update the model and serial numbers of the device. In some cases, a manufacturer may require only authorized personnel to perform the work on site. As you can tell, to modify a DCA to a DCDA can be more involved than just simply adding a bypass.



With the correct parts and knowledge, it can be done at a relatively low cost compared to replacing the entire assembly. Just remember to get approval from your local authority before you get started.

Thank you for being a valued customer and please let us know if we can assist you in any way. If you have questions about anything in this newsletter or suggestions for future newsletters, please email shannonw@backflowparts.com. We appreciate your input and look forward to hearing from you.

Sincerely,
Your Team at American Backflow Products



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