

the Repair Guys

In our line of work, we field questions from contractors and technicians concerning repairs, installations, and general backflow prevention practices. We'd like to share some questions we receive and our answers. Everyone has different opinions on these subjects and we would like to hear yours. Contact us with your questions and ideas via email at: imark@backflowparts.com or mail us at American Backflow Products Co., P.O. Box 37025, Tallahassee, FL. 32315.

QUESTION —

In the preceding article we discussed some of the physical differences between each modification of the 3/4 inch and 1 inch sizes of the Watts 007 series double check valve assembly. We did this to help in identifying each model if the data plate happened to be missing or was damaged and unreadable. This month we will continue with an identification of the 1 1/4 thru 2 inch sizes of the Watts model 007 series.

Mark -

The Watts 1 1/2 and 2 inch sizes of the model 007 series assemblies have been updated or modified a couple of times over the years. Like the model 009 series, the modifications made to the 007 series are dependent on the size of the assembly and should be indicated on the data plate *i.e.* M1 or M2. If you have followed this article for the past three months you're probably wondering why Watts has made all of these changes, resulting in many different modifications of relatively the same device. Contrary to popular belief, Watts did not make updates or modifications just to confuse or make things difficult for everyone. The modifications were introduced to make the device perform better. The only confusing and difficult part of these devices is ensuring that we have the correct parts when repairing a particular model.

- Jason

Let's start with the original 007 that was produced in the 1 1/2 and 2 inch sizes. This model is distinguishable

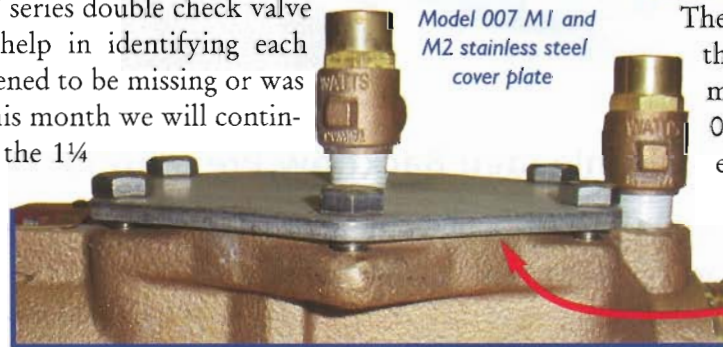


007M1 check at left and 007M2 check at right

from the M1 and M2 models by outward appearance. This model has a *brass* access cover and (6) cover bolts to secure it to the body. Just in case someone has painted the device to make it hard to tell whether it's brass or not, the access cover is slightly raised in the center to have a dome-like appearance. If you are not sure by outward appearance, take a look inside. This original has a stainless steel check valve retainer, and the disc holders in the check modules are made of brass as well.

Mark -

The next modification was to the 1 1/2 and 2 inch sizes. This modification was labeled the 007M1. This modification is easy to distinguish from the original by outward appearance. For starters this modification sports a *flat stainless steel* access cover which, also utilizes (6) bolts to secure the cover to the body. Since the 007M2 uses the same access cover, you might want to check inside this one for assurance. This 007M1 model also has



Model 007 M1 and M2 stainless steel cover plate



Model 007 M1 white plastic check cages with black plastic disc holders.

Model 007 M1 stainless steel check valve retainer.

a stainless steel check valve retainer, but the disc holders in the check modules are made of black plastic. One thing to note is that the 2 inch 007M1 is still a current model and only the 1¼ and 1½ inch sizes were modified next.

- Jason

The next model to be produced was in the 1¼ inch and 1½ inch sizes only. This modification was labeled the 007M2. This modification uses the same *flat stainless steel access cover* as the 007M1, so to be able to distinguish the 007M2 from the 007M1, you will have to take a look inside.

This modification has a black plastic check valve retainer, as opposed to the stainless steel retainer in the other two models. The 007 M2 check valve modules and disc holders are completely black plastic.



Watts
Model 007
M2 black
plastic
check
valve.

Watts
Model 007
M2 black
plastic check
valve retainer
and second
check (right).

SUMMARY POINTS TO REMEMBER



Double Check Valve Assembly

Identification of the 007 series - larger bronze body.

Original 007

1. 1½ & 2 inch: brass cover/stainless retainer/white seat & cage/brass disc holders..

First modification - 007 M1

1. 1½ & 2": stainless cover & check retainer/white seat & cage/ black disc holder. (2" 007M1 is current)

Second modification - 007 M2

1. 1¼ & 1½": flat stainless cover/black check retainer/black seat & cage/black disc holders.

dw&bp



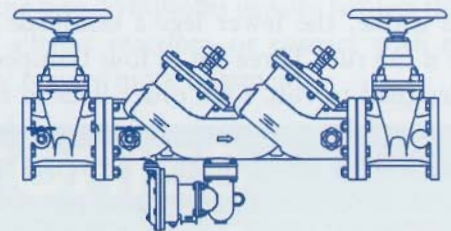
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