

Field Guide

Backflow Preventer Repair Parts

Small diameter models of backflow preventers have common parts across sizes and series, as well as parts that look similar on the outside but have different internal mechanisms. This field guide makes it simple for you identify repair parts of the base model and modifications M1, M2, M3. Click a size in one of the series listings below to get started on identifying your model.

Series 007

Double Check Valve Assemblies

1/2" 007

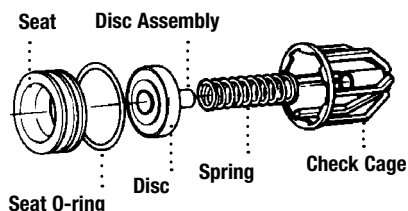
3/4", 1" 007M1

3/4" 007M2

3/4" 007M3

1 1/4", 1 1/2", 2" 007M1

1 1/4", 1 1/2" 007M2



Series 009

Reduced Pressure Zone Assemblies

1/2" 009

3/4" 009

3/4" 009M2

3/4" 009M3

1" 009

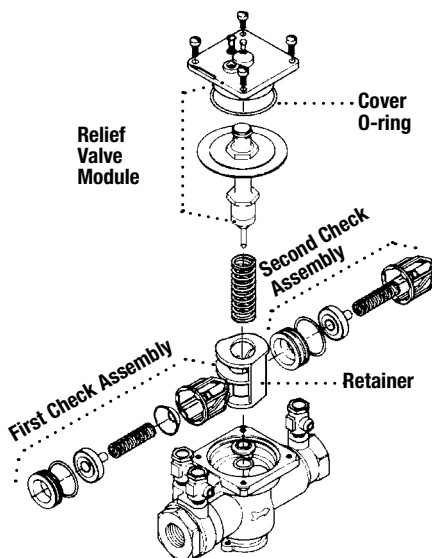
1" 009M2

1 1/4", 1 1/2", 2" 009

1 1/4", 1 1/2", 2" 009M1

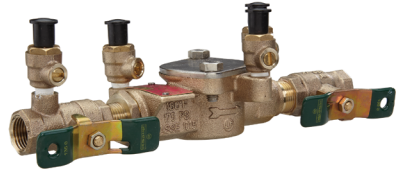
1 1/4", 1 1/2" 009M2

2" 009M2



1/2" 007

- Identical check used for the first check and the second check
- Check also used for 1/2" 009 second check
- Retainer also used in 1/2" 009



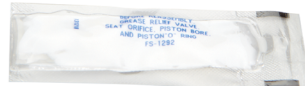
First Check



Second Check

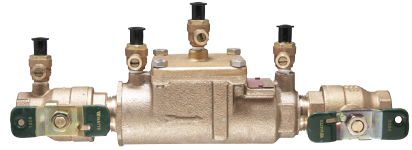


Retainer



3/4", 1" 007M1

- Identical check used for the first check and the second check
- Check also used for second check of 3/4" 009, 1" 009, 1" 009M2



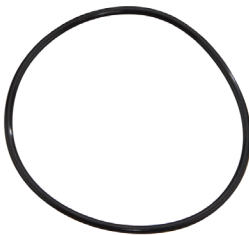
First Check



Second Check



Retainer



3/4" 007M2

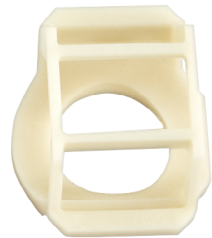
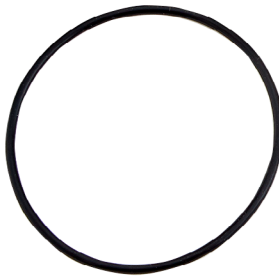
- First and second checks have a common spring
- Retainer also used in 3/4" 007M3, 3/4" 009M2, and 3/4" 009M3



First Check



Second Check



Retainer

3/4" 007M3

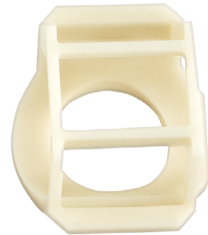
- First and second checks have a common spring
- Second check also used for 3/4" 009M3 second check
- Retainer also used in 3/4" 007M2, 3/4" 009M2, and 3/4" 009M3



First Check



Second Check

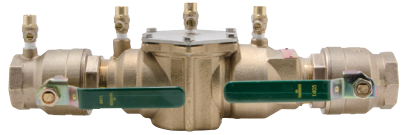


Retainer



1¼", 1½", 2" 007M1

- First check and second check have a common spring
- Second check also used for 1¼", 1½", 2" 009M1 second check as well as 2" 009M2 second check
- Checks are 2" line size



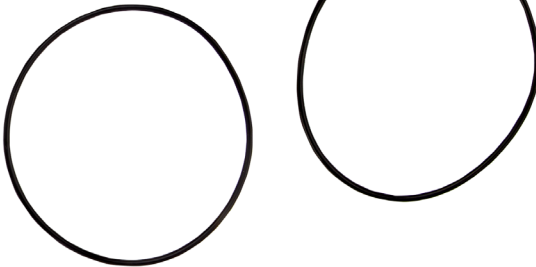
First Check



Second Check

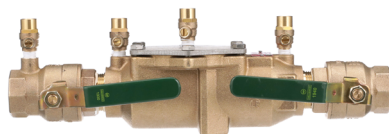


Retainer



1¼", 1½" 007M2

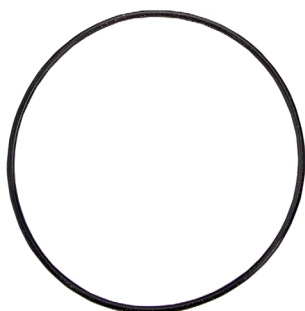
- First check and second check have a common spring
- Second check also used for 1¼", 1½" 009M2 second check
- Checks are true 1½" line size



First Check



Second Check



Retainer

½" 009

- First check and second check differ by seat color
- Second check also used for ½" 007 first check and second check
- Diaphragm assembly also used in ¾" 009M2 and ¾" 009M3
- Retainer also used in ½" 007



First Check



Second Check



Retainer



**Composite
Diaphragm
Assembly**

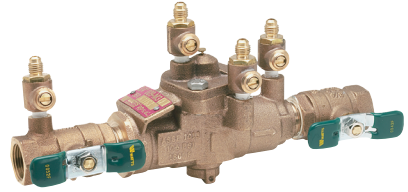


Relief Valve Seat



3/4" 009

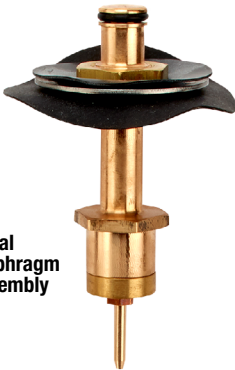
- First and second checks also used in 1" 009 and 1" 009M2
- Second check also used for 3/4" and 1" 007M1 first check and second check
- Diaphragm assembly also used in 1" 009
- Retainer also used in 1" 009 and 1" 009M2
- Relief valve seat also used in 1" 009



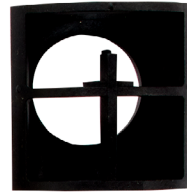
First Check



Second Check



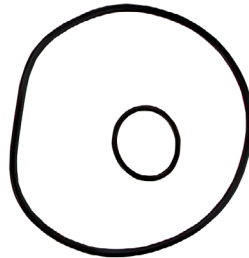
**Metal
Diaphragm
Assembly**



Retainer

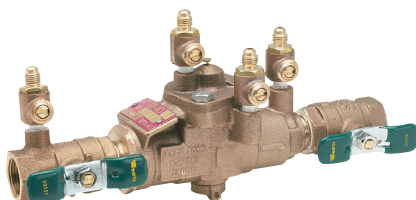


Relief Valve Seat



3/4" 009M2

- Second check also used for 3/4" 007M2 second check
- Diaphragm assembly also used in 1/2" 009 and 3/4" 009M3
- Retainer also used in 3/4" 007M2, 3/4" 007M3, and 3/4" 009M3



First Check



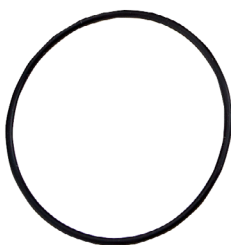
Second Check



Retainer



**Composite
Diaphragm
Assembly**

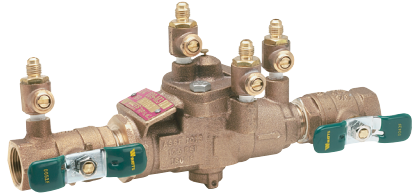


Relief Valve Seat



3/4" 009M3

- Second check also used for 3/4" 007M3 second check
- Diaphragm assembly also used in 1/2" 009 and 3/4" 009M2
- Retainer also used in 3/4" 007M2, 3/4" 007M3, and 3/4" 009M2



First Check



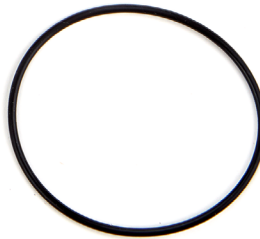
Second Check



Retainer



Composite Diaphragm Assembly



Relief Valve Seat



1" 009

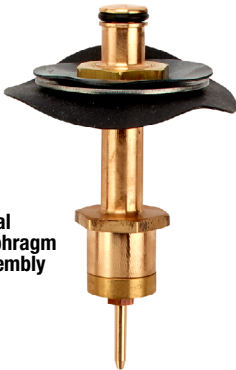
- Checks also used in ¾" 009 and 1" 009M2
- Second check also used for ¾" and 1" 007M1 first check and second check
- Diaphragm assembly also used in ¾" 009
- Retainer also used in ¾" 009 and 1" 009M2
- Relief valve seat also used in ¾" 009



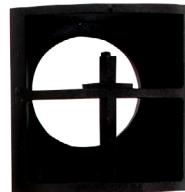
First Check



Second Check



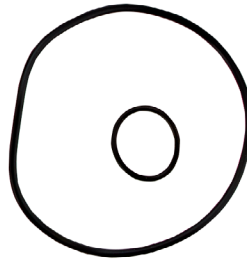
**Metal
Diaphragm
Assembly**



Retainer



Relief Valve Seat



1" 009M2

- First and second checks also used in $\frac{3}{4}$ " 009 and 1" 009
- Second check also used for $\frac{3}{4}$ " and 1" 007M1 first check and second check
- Retainer also used in $\frac{3}{4}$ " 009 and 1" 009



First Check



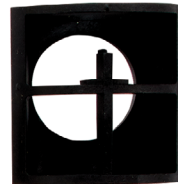
Second Check



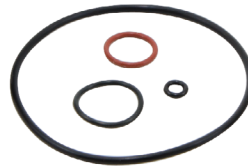
**Composite
Diaphragm
Assembly**



Relief Valve Seat



Retainer



1¼", 1½", 2" 009

- First check has a heavier spring than the second check
- First check seat diameter is smaller than the 1¼", 1½", 2" 009M1 first check seat diameter as well as the 2" 009M2 first check seat diameter
- Checks are 2" line size
- Retainer also used in 1¼", 1½", 2" 009M1 as well as 2" 009M2

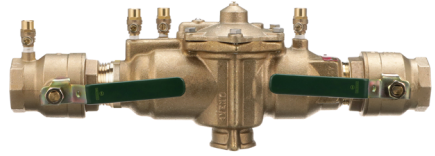


Image for reference only. Assembly no longer in production. Constructed from a combination of body and adapter, not the unibody shown.



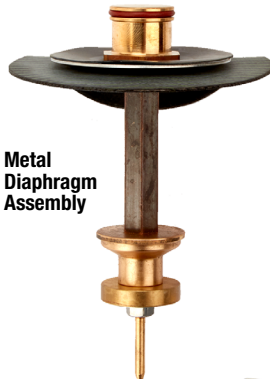
First Check



Second Check



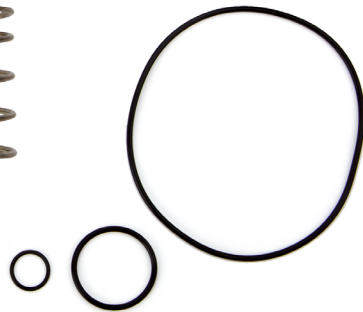
Retainer



**Metal
Diaphragm
Assembly**

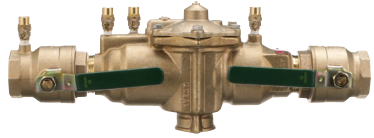


Relief Valve Seat



1¼", 1½", 2" 009M1

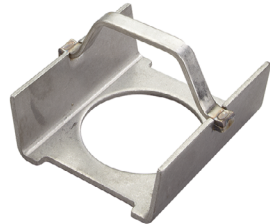
- First check has a heavier spring than the second check
- First and second checks also used in 2" 009M2
- Second check also used for 1¼", 1½", 2" 007M1 second check
- Checks are 2" line size
- O-ring is higher on the second check seat
- Retainer also used in 1¼", 1½", 2" 009 as well as 2" 009M2



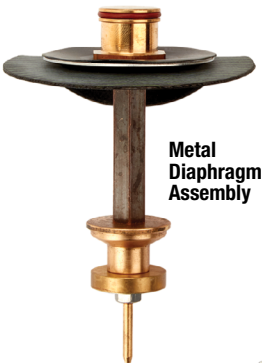
First Check



Second Check



Retainer



**Metal
Diaphragm
Assembly**

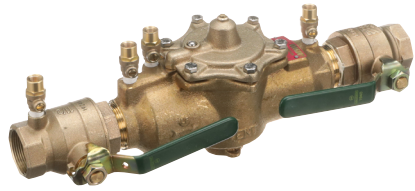


Relief Valve Seat



1¼", 1½" 009M2

- First check has a heavier spring than the second check
- Second check also used for 1¼", 1½" 007M2 second check
- Checks are true 1½" line size



First Check



Second Check



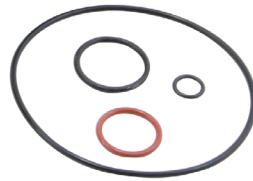
Retainer



**Composite
Diaphragm
Assembly**

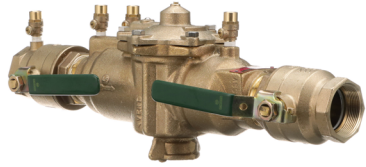


Relief Valve Seat



2" 009M2

- First check has a heavier spring than the second check
- O-ring is higher on the second check seat
- First and second checks also used in 1¼", 1½", 2" 009M1
- Second check also used for 1¼", 1½", 2" 007M1 second check
- Checks are 2" line size
- Retainer also used in 1¼", 1½", 2" 009 as well as 1¼", 1½", 2" 009M1



First Check



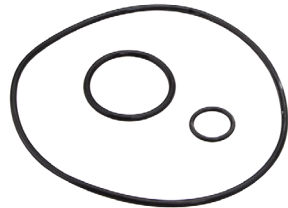
Second Check



Retainer



**Composite
Diaphragm
Assembly**



Relief Valve Seat



Repair Kit Matrix

<div> <div>Kit Type</div> <div>Series</div> <div>Model</div> <div>Kit Contents</div> <div>Size</div> </div> <div> Example: RK - 009 - RPDA - M1 - CK1 - 8" </div>				
Kit Type	Series	Model	Kit Contents	Size
RK = Repair Kit HK = Handle Kit AK = Accessory Kit UK = Union Kit			B = Bonnet Assembly C = Cover V = Vent or Relief Valve CK = Check or Spring RC = Rubber for Check RV = Rubber for Relief Valve RT = Total Rubber Parts S = Seat M = Metered Bypass L = Less Meter G = GPM C = CFM T = Total (all internal parts) 1 = First Check 2 = Second Check 3 = Both 1st and 2nd Check 4 = Either 1st or 2nd Check SS = Stainless Steel SM = Spring Module HW = Harsh/Hot Water	

On page 1, exploded view of 1" 009 valve assembly. A representation of Series 009.

Notes



USA: T: (978) 689-6066 • [Watts.com](https://www.watts.com)

Canada: T: (888) 208-8927 • [Watts.ca](https://www.watts.ca)

Latin America: T: (52) 55-4122-0138 • [Watts.com](https://www.watts.com)