

CALEFFI 574 SERIES

SIZE

1/2", 3/4", 1", 1 1/4" 1 1/2", 2"

DESCRIPTION

This is a reduced pressure principle assembly. Production began in 2022. The body and cover are made from low lead brass. All sizes come with a union end connection to attach the body to the ball valve shut off. There is a single access cover on the top. Once the cover bolts are loosened, there will be slight spring tension from the relief valve spring. The relief valve stem is located below the access cover and can be removed from the top. The checks are an in-line modular design. The checks are held in by a retainer and can be removed by sliding the check out of the body and removing it from the top of the body. The check springs are contained when removing the check assembly from the body.

BASIC REPAIR KIT

Repair kit contains both check assemblies and the relief valve stem assembly.

<u>SIZE</u>	<u>KIT NO</u>
1/2	NA11604
3/4"	NA11605
1"	NA11606
1 1/4"	NA11607
1 1/2"	NA11608
2"	NA11609

IMPORTANT FEATURES

~ *Single top access cover*

~ *In-line modular check design*

~ *Union end connections*



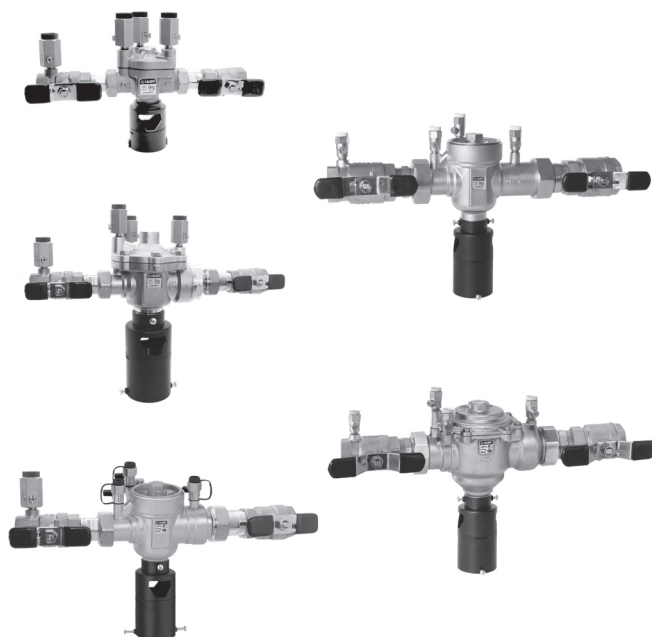
FlowShield™ RP testable reduced pressure zone backflow preventer

574 series



01022/23 NA

Replaces 01022/22.1 NA



Function

The backflow preventer can be used in all plumbing systems where there is danger of the potable water supply system being contaminated. It prevents an accidental reduction in the pressure in the distribution system from causing backflow from contaminated water in user installations.

The 574 series FlowShield™ RP backflow preventer is listed by ASSE to Standard 1013 and is ICC-ES certified to CSA B64.4, AWWA C511, NSF/ANSI/CAN 61 and NSF/ANSI/CAN 372 low lead laws. It meets codes IPC, IRC, NPC and UPC for use in accordance with the US and Canadian plumbing codes. The 574 comes complete with discharge air gap, all test ports are on top for easy access in spite of how the valve is mounted, union body connections make service and repair simple and fast, and a simple short list of parts is all that is required to do a rebuild. One rebuild kit code number includes all parts needed to rebuild the backflow preventer.

Also available in combination with AutoFill™ pre-adjustable automatic filling valves, 1/2", 3/4" and 1" sizes.



NSF/ANSI/CAN 61

Product Range

574 series FlowShield RP testable reduced pressure zone backflow preventer (ASSE 1013) with four pressure test ports and inlet/outlet isolation ball valves
.....sizes 1/2", 3/4", 1-1/4", 1-1/2" and 2" NPT female, press connections

Technical specification

Materials

- Body: DZR low-lead brass, EN 1982 CB752S (1/2"-1 1/2") CB480K-DW (2")
- Access cover: DZR low-lead brass, EN 12165 CW724R CB480K-DW (2")
- Access cover bolts: stainless steel
- Check valves: PSU-POM-CW724R
- Springs: stainless steel
- Diaphragms and seals: peroxide-cured EPDM

Isolation ball valves, inlet and outlet

- Body: C898333 low-lead bronze
- Ball: 304 stainless steel
- Handle and nut: steel
- Seat ring and packing gland: PTFE
- Gland nut: brass
- Stem: low-lead brass

Performance

Suitable fluids: Water
Max working pressure: 150 psi (10 bar)
Max working temperature: 150°F (65°C)

Certifications

1. Listed by ASSE to Standard 1013.
2. CSA B64.4, AWWA C511, and NSF/ANSI/CAN 61 certified by ICC-ES, file PMG-1433.
3. Complies with NSF/ANSI/CAN 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, as certified by ICC-ES, file PMG-1360.

Connections

-NPT female: 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"
-Press: 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"
-Pressure test ports: 1/4" NPT upstream, intermediate, downstream

Engineering tools

BIM Revit files

www.caleffi.com

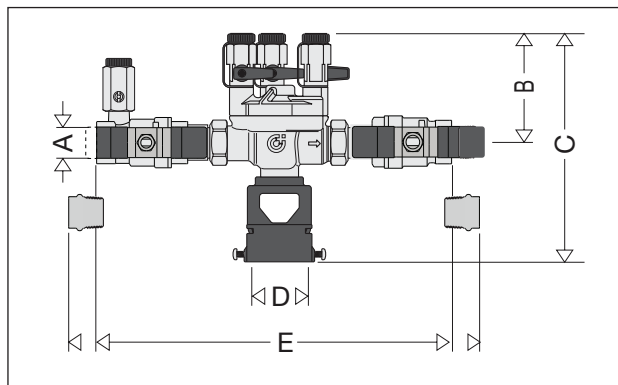
BIMObject.com

Full length Product MasterSpec

www.caleffi.com

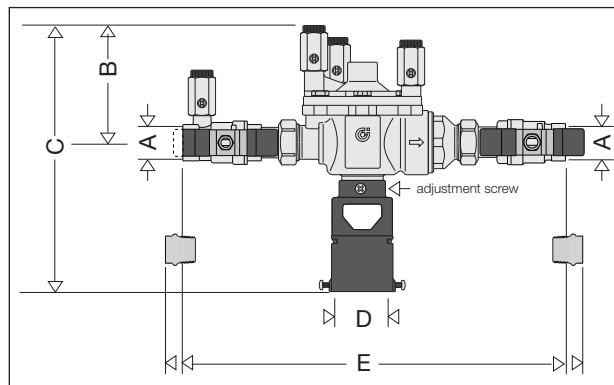
<https://get.caleffi.info/specpoint>

Dimensions



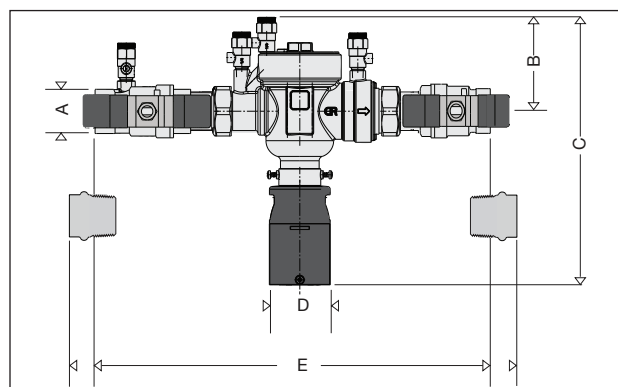
Code	A	B	C	D (mm)	E	Wt (lb)
574004A	1/2" FNPT	3 1/4"	6 1/4"	40 mm	9 3/4"	5.0
574064A	1/2" press*	3 1/4"	6 1/4"	40 mm	12 3/8"	5.1

* Lay length: 10 7/8"



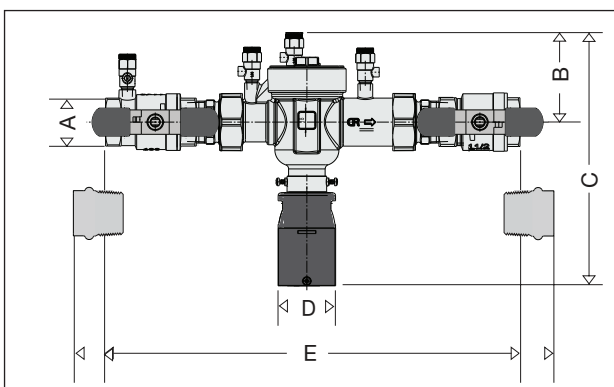
Code	A	B	C	D (mm)	E	Wt (lb)
574050A	3/4" FNPT	4"	10 1/2"	40-60 mm	13 1/4"	9.5
574056A	3/4" press*	4"	10 1/2"	40-60 mm	16 1/2"	9.6
574006A	1" FNPT	4"	10 1/2"	40-60 mm	14"	9.5
574606A	1" press*	4"	10 1/2"	40-60 mm	17 3/4"	9.6

* Lay length: size 3/4 inch: 14 1/2"; size 1 inch: 15 7/8"



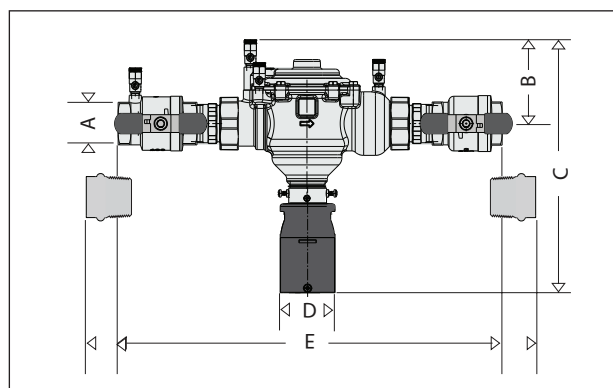
Code	A	B	C	D (mm)	E	Wt (lb)
574700A	1 1/4" FNPT	4"	11 1/2"	40-60	16 1/2"	13
574706A	1 1/4" press*	4"	11 1/2"	40-60	20 1/4"	13

*Lay length: 18 1/4"



Code	A	B	C	D (mm)	E	Wt (lb)
574801A	1 1/2" FNPT	4"	11 1/16"	40-60	18 3/4"	15
574806A	1 1/2" press*	4"	11 1/16"	40-60	23 3/8"	17

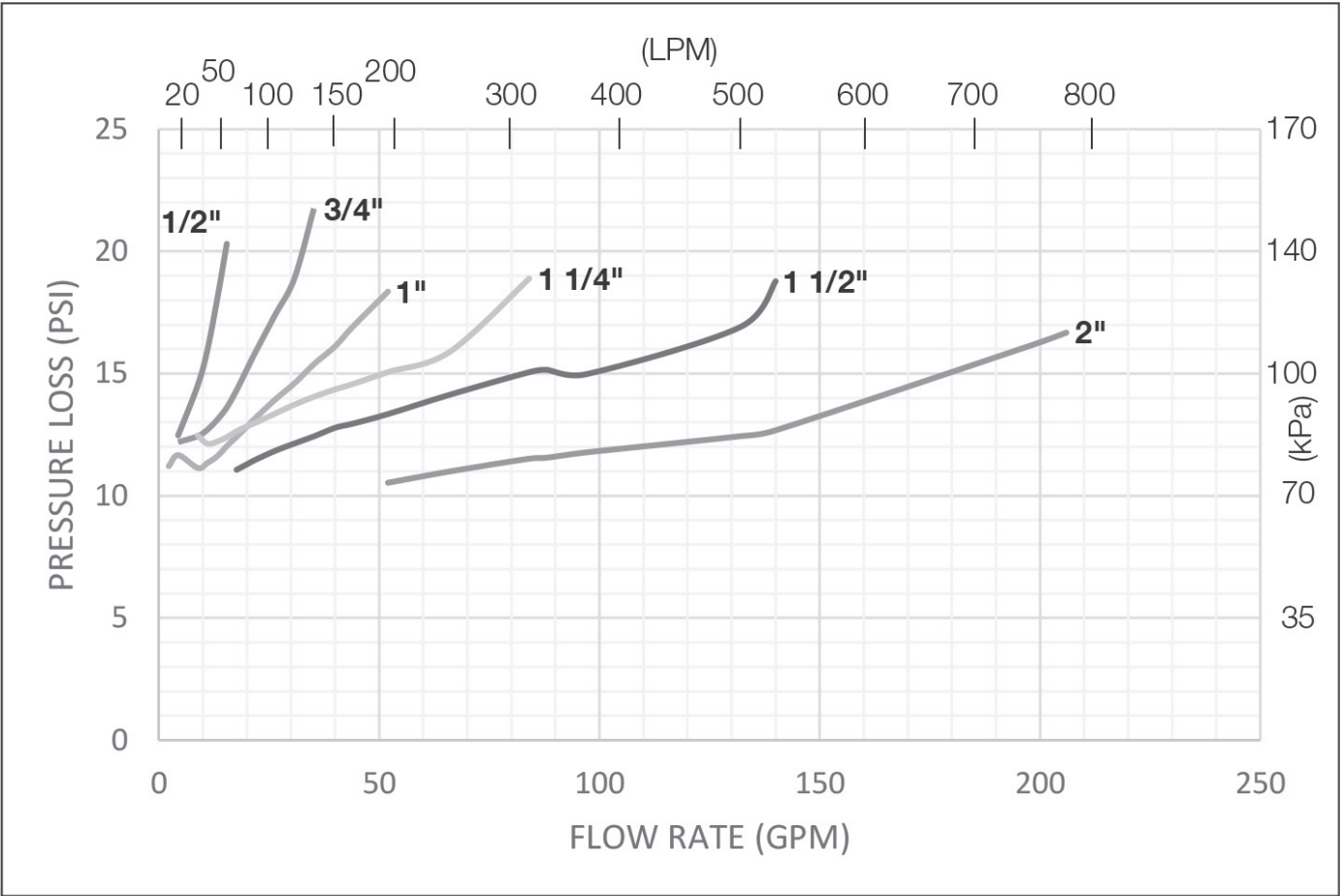
*Lay length: 20 3/8"



Code	A	B	C	D (mm)	E	Wt (lb)
574900A	2" FNPT	5 3/16"	14 1/2"	40-60	23 3/4"	25
574906A	2" press*	5 3/16"	14 1/2"	40-60	33 3/4"	27

*Lay length: 31 1/16"

Hydraulic Characteristics



CALEFFI FACTORY REPAIR INFORMATION

The following pages are excerpts from literature the manufacturers print to help repair their assemblies. This information is provided to assist in repairing their assemblies but should not be considered all the information needed to repair all situations.

MODEL FOR WHICH FACTORY REPAIR INFORMATION IS PROVIDED

Model 574 Series

pg 26-52

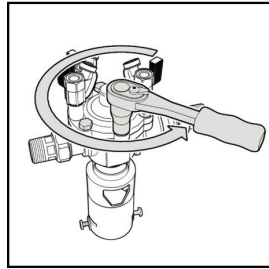
**PAGES 26-5 THROUGH 26-50 HAVE INTENTIONALLY BEEN
OMITTED**



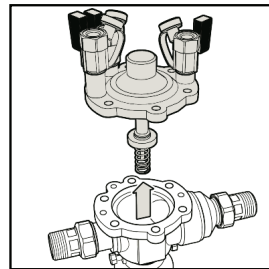
Procedure for examining internal parts ($\frac{1}{2}$ ", $\frac{3}{4}$ " and 1")

The following illustrations show the required operations to inspect the functional inner parts of the backflow preventer, sizes $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1".

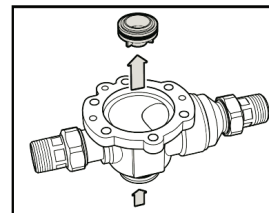
1. Release the pressure by unscrewing the pressure test ports. Remove the cover bolts.



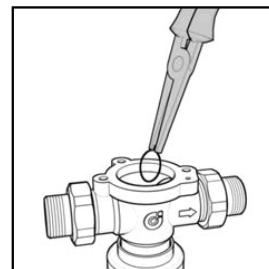
2. Pull out the core assembly and spring.



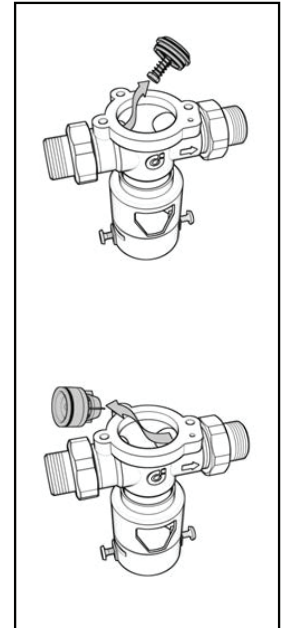
3. Pull out the seat of the discharge valve by pushing it from the outside while handling it with care so as not to damage it. Caution: If it should not be removed, protect it from possible damage which could result from changing the check valves.



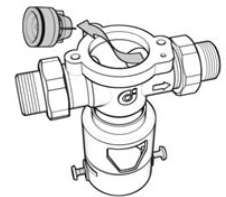
4. Remove the split rings holding the check valves in place with a pair of long-nose pliers.



5. Remove the upstream and downstream check valves using a common pipe wrench or suitable size pliers.



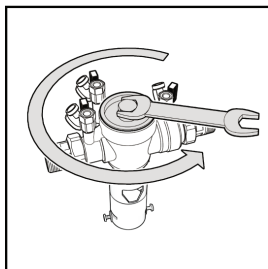
6. After examination and after replacing any necessary components when reinstalling the check valves make sure the split rings are perfectly located in the seat.



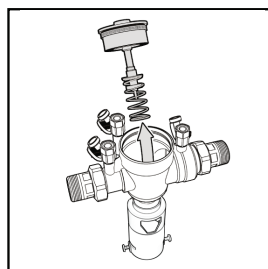
Procedure for examining internal parts (1¼")

The following illustrations show the required operations to inspect the functional inner parts of the backflow preventer, size 1¼".

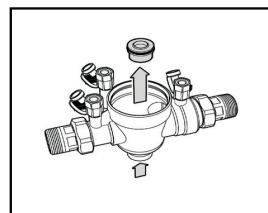
1. Release the pressure by unscrewing the pressure test ports. Remove the cover .



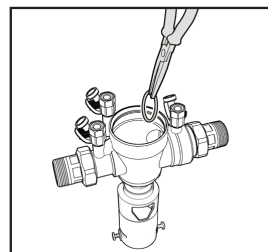
2. Pull out the core assembly and spring.



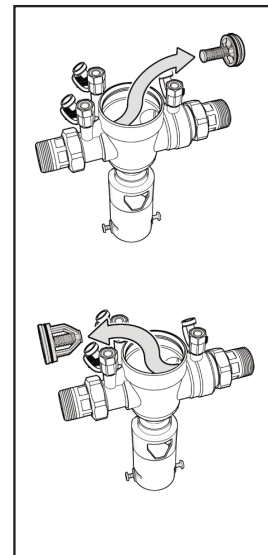
3. Pull out the seat of the discharge valve by pushing it from the outside while handling it with care so as not to damage it. Caution: If it should not be removed, protect it from possible damage which could result from changing the check valves.



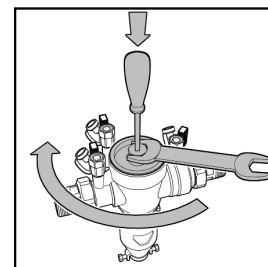
4. Remove the split rings holding the check valves in place with a pair of long-nose pliers.



5. Remove the upstream and downstream check valves using a common pipe wrench or suitable size pliers.



6. After examination and after replacing any necessary components when reinstalling the check valves make sure the split rings are perfectly located in the seat.

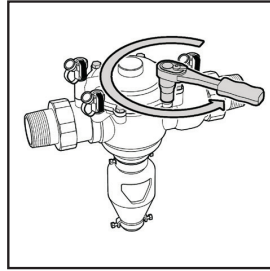


7. To close the backflow preventer, step backwards through steps 3 and 2. Place the threaded connection correctly into its seat. Press the central rod through with a pointed tool, and fully screw the cover in place with a hexagonal wrench while firmly holding in place.

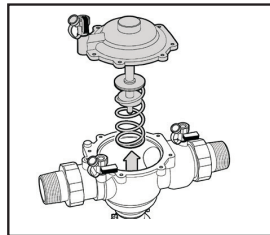
Procedure for examining internal parts (1½" and 2")

The following illustrations show the required operations to inspect the functional inner parts of the backflow preventer, sizes 1½" and 2".

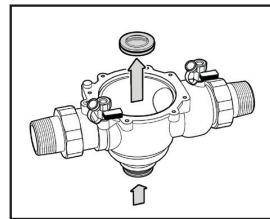
1. Release the pressure by unsewing the pressure test ports. Remove the cover bolts.



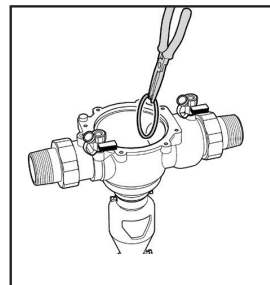
2. Pull out the core assembly and spring.



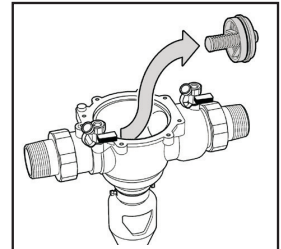
3. Pull out the seat of the discharge valve by pushing it from the outside while handling it with care so as not to damage it. Caution: If it should not be removed, protect it from possible damage which could result from changing the check valves.



4. Remove the split rings holding the check valves in place with a pair of long-nose pliers.



5. Remove the upstream and downstream check valves using a common pipe wrench or suitable size pliers.



6. After examination and after replacing any necessary components when reinstalling the check valves make sure the split rings are perfectly located in the seat.

