



PH. (843) 918-1192

FAX (843) 918-1204

City of Myrtle Beach
SOUTH CAROLINA
FIRE DEPARTMENT

**NOTICE OF APPROVED BACKFLOW
PREVENTIVE DEVICES FOR SOUTH CAROLINA**

Enclosed is the revised list of approved backflow prevention devices and a list of backflow equipment representatives.

The following should be considered before selecting a particular device:

1. All local plumbing laws and regulations must be adhered to.
2. Manufacturer's installation instructions shall be strictly adhered to.
3. Reduced pressure principle assemblies shall be installed so that the relief port will never become submerged. This prohibits installation in a pit that cannot be drained by gravity to the surface of the ground. Also, RPPA are not acceptable for the vertical orientation unless approved by the University of Southern California's Foundation for Cross Connection Control & Hydraulic Research.
4. The operating performance of these devices varies among manufacturers; therefore, it is suggested that local water authorities be contacted to assist in selecting a device which is best suited for that particular system.
5. The South Carolina Department of Health and Environmental Control reserves the right to add or to remove from the approved list any reduced pressure principle assembly, pressure vacuum breaker, or double check valve assembly.
6. It is a requirement that backflow prevention devices be tested immediately after installation and at least once a year thereafter. If a serious defect is discovered at the time of the first (immediate inspection after installation) inspection or after any subsequent inspections, it is requested that the Department of Health and Environmental Control be notified so prompt action can be taken to review the approved status of the device.
7. By-pass piping is not permitted unless the by-pass piping is equipped with an approved backflow prevention assembly similar to the main line device. In many instances it will be desirable, or necessary to install two approved backflow prevention devices in order that water service will not be interrupted during the testing or repair of the device.



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8. Some manufacturers market, as non-standard equipment, devices capable of withstanding elevated temperatures. The high temperature devices should be ordered from the manufacturer to include documentation certifying their ability to withstand high temperatures.
9. Any reduced pressure principle assembly, pressure vacuum breaker, or double check valve assembly on this list of approved devices must be equipped with either resilient seated ball valves or resilient wedged gate valves. Butterfly valves are acceptable on backflow devices as long they are approved by the University of Southern California's Foundation for Cross Connection Control & Hydraulic Research.
10. If a manufacturer markets a prefabricate "manifold" series it will be approved as long as both of the devices in the manifold are from the approved list.
11. If a manufacturer markets a double detector check valve assembly or a reduced pressure principle detector assembly it will be approved as long as both devices are from the approved list.

All devices on this approval list must be equipped with resilient seated ball valves or resilient wedged gate valves. Butterfly valves are acceptable on backflow devices as long as they are approved by (USCFCCC&HR).

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LIST OF APPROVED BACKFLOW PREVENTION DEVICES
DOUBLE CHECK VALVE ASSEMBLIES

DCVA's are approved for use when protecting the potable water system from backflow when a low degree of hazard is involved. A low degree of hazard is one which may cause an actual or potential threat to the physical properties of the water system or the potability of the public or consumer's potable water system. However, a low degree of hazard would not constitute a health or system hazard. The maximum degree or intensity of pollution to which the potable water system could be degraded under this definition would cause a nuisance or be aesthetically objectionable.



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COMPANY MODEL SIZE

Ames 2000B ½", ¾", 1", 1¼", 1½", 2"
2000 (Epoxy) 4", 6", 8", 10"
2000SS ¾", 1", 1¼", 1½", 2", 2½"
3", 4", 6", 8", 10"
2000SE 2½", 6", 8"
2001SS 3", 4", 6", 8"
2001SSN 3", 4", 6", 8"
2001SSZ 3", 4", 6", 8"
Colt200A 2½, 3", 4", 6", 8", 10"
Colt200N 2½, 3", 4", 6", 8", 10"
Maxim200A 2½, 3", 4", 6", 8"
Maxim200N 2½, 3", 4", 6", 8"
Beeco-Hersey #2 3", 4", 6", 8", 10"
FDC ¾", 1", 1½", 2"
HDC ¾", 1", 1½", 2"
Buckner 24100 thru 24104 ¾", 1", 1¼", 1½", 2"
Cla-Val D2 ¾", 1", 1¼", 1½"
D4 2", 2½, 3", 4", 6", 8", 10"
DC6LB ¾", 1", 1½", 2"
DC6LW ¾", 1", 1½", 2"
DC7LW 2½, 3", 4", 6", 8", 10"
DC7LY 2½, 3", 4", 6", 8", 10"
DC8LW 2½, 3", 4", 6", 8", 10"
DC8LY 4", 6", 8"
DC8NW 2½, 3", 4", 6", 8", 10"
DC8NY 2½, 3", 4", 6", 8"
DC8VW 2½, 3", 4", 6"
DC8VY 2½, 3", 4", 6"



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DOUBLE CHECK VALVE ASSEMBLIES CONTINUED
COMPANY MODEL SIZE

Conbraco 40-100 Series ½", ¾", 1", 1¼", 1½", 2", 2½, 3", 4",
6", 8", 10"
40-104 A2T thru
40-108 A2T ¾", 1", 1¼", 1½", 2"
4S-100 Series 2½, 3", 4", 6"
Febco 805 ¾", 1", 1½", 2", 3", 4",
805Y ¾", 1", 1½", 2", 2½, 3", 4", 6", 8", 10"
805YB & YR ¾", 1"
805YD 2½, 3", 4", 6", 8", 10"
850 ¾", 1", 1½", 2", 2½, 3", 4", 6", 8"
870 2½, 3", 4", 6", 8", 10"
870V 2½, 3", 4", 6", 8", 10"
830 4", 6", 8"
830H 4", 6"
Flomatic DCV ¾", 1", 1½", 2", 2½", 3", 4", 6", 8"
DCVE ¾", 1", 1½", 2"
Watts 709QT ¾", 1", 1½", 2", 2½, 3", 4", 6", 8", 10"
709 2½, 3", 4", 6", 8", 10"
007 ½", ¾", 1", 1¼", 1½", 2", 3"
007M1&M2QT ¾", 1", 1¼", 1½", 2"
007M3QT ¾"
770 4", 6", 8"
772 4", 6", 8", 10"
774 ¾", 1", 1¼", 1½", 2", 2½, 3", 4", 6",
8", 10"
774X 2½, 6", 8"
775QT ½", ¾", 1", 1¼", 1½", 2"
775 3", 4", 6", 8"
N775 3", 4", 6", 8"
757A 2½, 3", 4", 6", 8", 10"
757N 2½, 3", 4", 6", 8", 10"
767A 2½, 3", 4", 6", 8"
Wilkins 350 ¾", 1", 2½, 3", 4", 6", 8", 10"
450 2½, 3", 4", 6", 8", 10"
550 ¾", 1", 1¼", 1½", 2", 2½, 3", 4", 6",
8", 10"



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DOUBLE CHECK VALVE ASSEMBLIES CONTINUED
COMPANY MODEL SIZE

Wilkins 950 ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6",
8", 10"
950XLT ¾", 1", 1¼", 1½", 2"
950XL ¾", 1", 1¼", 1½", 2"
950XLU ¾", 1", 1½", 2"

The following devices are Double DETECTOR Check Valve Assemblies and Reduced Pressure Principle DETECTOR Assemblies. These devices are made up from approved DCVA's and RPPA's which are approved elsewhere on this list. Therefore, they are approved devices. These devices are mainly designed for FIRE LINE use. If a Double Detector Check Valve Assembly or Reduced Pressure Principle Detector Assembly is prescribed for a given facility on your system, it should be done with an understanding of this purpose, as well as the fact that its meter will have to be read periodically in order to be of any value. Don't forget that when the annual testing is done, both of these devices are required to be tested.

DOUBLE DETECTOR CHECK VALVE ASSEMBLIES ARE:

AMES - 3000SS, 3000SE, (3001SS & 3001SSN & 3001SSZ 3"-8"),
(Colt300A 2½"-10"), (Colt300N 2½"-10"), (Maxim300 2½"-8"),
(Maxim300N 2½"-8")
BEECO-HERSEY - DDCII
CLAVAL - DD7LY, DD8LY, DD8NY
CONBRACO - 40-600, 40-60A, 40-60C, 40-60E, 40-60G
FEBCO - 806YD, 856, 876, 876V, (831 4"-8"), (831H 4"-6")
WATTS - 007DCDA, 709DCDA, 770DCDA, 772DCDA, 774DCDA, and
774XDCDA, (775DCDA & N775DCDA 2½"-10")
WILKINS - 950DA, (350DA 2½"-10"), (450DA 4"-6")

REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLIES ARE:

AMES- 5000SS, (5001SS & 5001SSN & 5001SSZ 3"-6"), (Colt500A
2½"-10"), (Colt500N 2½"-10"), (Maxim500A 2½"-8"), (Maxim500N
2½"-8")
BEECO-HERSEY- 6CMDA
CLAVAL- RD7LY
CONBRACO- 40-700, 40-70A, 40-70C, 40-70E, 40-70G
FEBCO- 826YD



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WATTS- 009RPDA, 909RPDA, 990RPDA, 992RPDA, (957RPDA 2½"-10"), (957NRPDA 2½"-10")

WILKINS- 975DA, (375DA 4"-6"), (475DA 4"-6")

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**LIST OF APPROVED BACKFLOW PREVENTION DEVICES
REDUCED PRESSURE PRINCIPLE ASSEMBLIES**

Approved for use to protect the potable water system from backflow when there is an actual or potential health hazard. The terms "health hazard" shall mean an actual or potential threat of contamination or pollution of a physical or toxic nature to the public potable water system or the consumer's potable water system to such a degree of intensity that there would be a danger to health.

COMPANY MODEL SIZE

Ames 4000B ½", ¾", 1", 1¼", 1½", 2"

4000-RP 4", 6", 8", 10"

4000SS ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6", 8", 10"

4001SS 3", 4", 6"

4001SSN 3", 4", 6"

4001SSZ 3", 4", 6"

Colt400 2½", 3", 4", 6", 8", 10"

Colt400N 2½", 3", 4", 6", 8", 10"

Maxim400 2½", 3", 4", 6", 8"

Maxim400N 2½", 3", 4", 6", 8"

Beeco-Hersey 6CM 2½", 3", 4", 6", 8", 10"

6CM-Bronze 2½", 3", 4", 6", 8"

FRP-II ¾", 1", 1¼", 1½", 2"

Buckner 24000 thru 24004 ¾", 1", 1¼", 1½", 2"

Cla-Val RP-2 ¾", 1", 1¼", 1½"

RP-4 2", 2½", 3", 4", 6", 8", 10"

RP-4V 4"

RP6LW ¾", 1", 1¼", 1½", 2"

RP6VW ¾", 1", 1½", 2"

RP7LW 2½", 3", 4", 6", 8", 10"

RP7LY 2½", 3", 4", 6", 8", 10"

RP8LW 2½", 3", 4", 6", 8", 10"

RP8LY 2½", 3", 4", 6", 8"



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RP8NW 2½, 3", 4", 6", 8", 10"
RP8NY 2½, 3", 4", 6", 8"
RP8VW 2½, 3", 4", 6", 8", 10"
RP8VY 2½, 3", 4", 6"
Conbraco 40-200 Series ¼", ⅜", ½", ¾", 1", 1¼", 1½", 2", 2½,
3", 4", 6", 8", 10"
Stainless {40-204-A2S ¾
Steel {40-205-A2S 1"

**REDUCED PRESSURE PRINCIPLE ASSEMBLIES CONTINUED:
COMPANY MODEL SIZE**

Febco 825 2½, 3", 4", 6", 8", 10"
825D 2½, 3", 4", 6", 8", 10"
825Y ¾", 1", 1¼", 1½", 2", 2½
825YD 2½, 3", 4", 6", 10"
825YA ¾", 1", 1½", 2"
825YR ¾", 1", 1½", 2"
835B ¾", 1", 1½", 2"
860 ¾", 1", 1½", 2", 2½, 3", 4", 6", 8"
880 2½, 3", 4", 6", 8", 10"
880-V 2½, 3", 4", 6", 8", 10"
Flomatic RPZ ¾", 1", 1½", 2", 2½, 3", 4", 6", 8"
RPZII ½", ¾"
RPZE ¾", 1", 1½", 2"
Watts 909 2½, 3", 4", 6", 8", 10"
909QT ¾", 1", 1¼", 1½", 2"
009 2½, 3", 4", 6"
009QT ¼", ⅜", ½", ¾", 1", 1¼", 1½", 2"
009M1&M2QT ¾", 1", 1¼", 1½", 2"
009M3QT ¾"
990 4", 6", 8"
992 4", 6", 8", 10"
994 ¾", 1", 1½", 2", 2½, 3", 4", 6", 8",
10"
995 ¾", 1", 1¼", 1½"
957 2½, 3", 4", 6", 8", 10"
957N 2½, 3", 4", 6", 8", 10"
967 2½, 3", 4", 6", 8"



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Wilkins 375 2½", 3", 4", 6"
475 2½", 3", 4", 6"
475G, V, & VG 2½", 3", 4", 6"
575 ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6",
8", 10"
975 ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 6",
8", 10"
975A ¾", 1", 1¼", 1½", 2"
975MS 2½", 3", 4", 6", 8", 10"
975XL ¼", ⅜", ½", ¾", 1", 1¼", 1½", 2"
975XLMS ¾", 1", 1¼", 1½", 2"
975XLU ¾", 1", 1½", 2"

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**LIST OF APPROVED BACKFLOW PREVENTION DEVICES
PRESSURE VACUUM BREAKERS**

PVB's are approved for use when protecting the potable water system from backsiphonage only when a health hazard or non-health hazard is involved. The term "health hazard" shall mean an actual or potential threat of contamination or pollution of a physical or toxic nature to the potable water system or the consumer's potable water system to such a degree of intensity that there would be a danger to health. It is very important to understand that the PVB is **not** designed for backpressure. Also, the PVB must be installed 12" above any downstream plumbing.

COMPANY MODEL SIZE

Ames A200 ½", ¾", 1", 2"
Buckner 24199 thru 24204 ½", ¾", 1", 1¼", 1½", 2"
24199/25 thru 24204/25 ½", ¾", 1", 1¼", 1½", 2"
Conbraco 40-503-02 thru 40-508-02 ½", ¾", 1", 1¼", 1½", 2"
Febco 765 ½", ¾", 1", 1¼", 1½", 2"
745 ¾", 1"
Flomatic PVB ¾", 1"
Rain Bird PVB-075-R thru 200-R ¾", 1", 1¼", 1½", 2"
Watts 800QT ¾", 1", 1¼", 1½", 2"
800MQT ½", ¾"
800CMQT ½", ¾"
800M2QT ½", ¾", 1", 1¼", 1½", 2"
800M3QT ½", ¾"
800M4FR ½", ¾", 1", 1¼", 1½", 2"



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800M4QT ½", ¾", 1", 1¼", 1½", 2"
Wilkins 720A ½", ¾", 1", 1¼", 1½", 2"
420 ½", ¾", 1"

BACKFLOW EQUIPMENT REPRESENTATIVES

Conbraco Febco

Mr. Larry Castleberry Mr. M. C. Sorrell or Mr. Bob Buddo
Pro Marketing, Inc SPC Marketing
110 Corporate Dr / Suite L P.O. Box 675
Spartanburg SC 29303 Monroe, NC 28111
864-578-4334 704-283-8554

IMSCO Watts & Ames

Mr. Rick Wade or Mr. Donnie Johnson Mr. Joel Golmont
3540 Rutherford Rd Smith & Stevenson
Taylors SC 29687 P. O. Box 240009
864-268-2891 Charlotte, NC 28224
800-476-2212 800-225-9895

BAVCO Wilkins

Mr. Jim Purzycki Mr. Craig Birchfield
20435 South Susana Rd Quality Marketing
Long Beach, CA 90810 3500-L Woodpark Blvd
800-458-3492 Charlotte, NC 28206
310-639-5231 704-599-9407

Cla-Val Flomatic

Mr. Will Hodges Mr. John Amon or Mr. Jim Mullins
Cla-Val Company Preferred Sources
265 W. Highway 54 / Suite 110PMB 930 Culp Road
Durham, NC 27713 Pineville NC 28134
919-489-6721 704-504-3111

American Backflow Products Cash-Acme / Flomatic

Mr. Mark Inman Mr. Dan Hunt or Mr. Allen Scott
7580-A West Tennessee Street 3401 Woodpark Blvd Suite B
Tallahassee, FL 32303 Charlotte NC 28206
800-575-9618 704-921-8422



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If you should have any questions concerning this list or need any assistance concerning backflow prevention or cross connection control, please call or write:

Mr. John Watkins, Cross Connection Control Program Coordinator
SCDHEC / Bureau of Water
2600 Bull Street
Columbia, SC 29201
803-898-3567 phone
803-898-4140 fax