

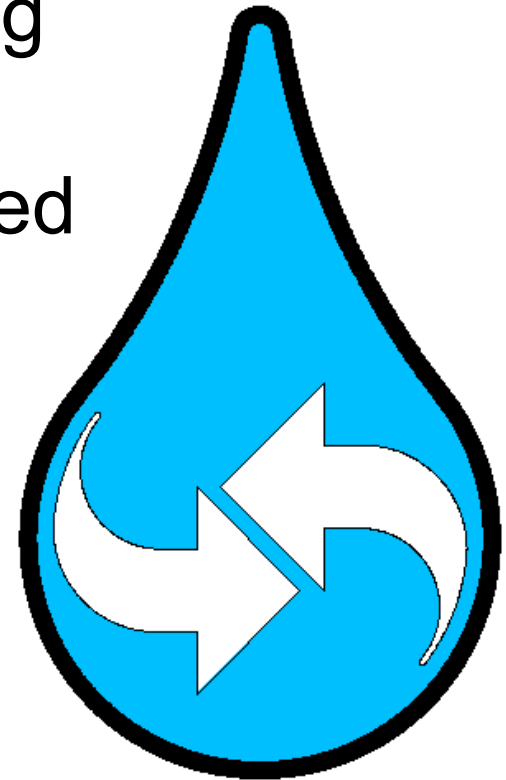


Backflow Preventers



Cross Connection

- Direct arrangement of piping which allows the potable water supply to be connected to a line which contains a contamination.
- Can create a health risk





Types of Backflow

- o Backpressure
- o Back-siphon age





Backpressure

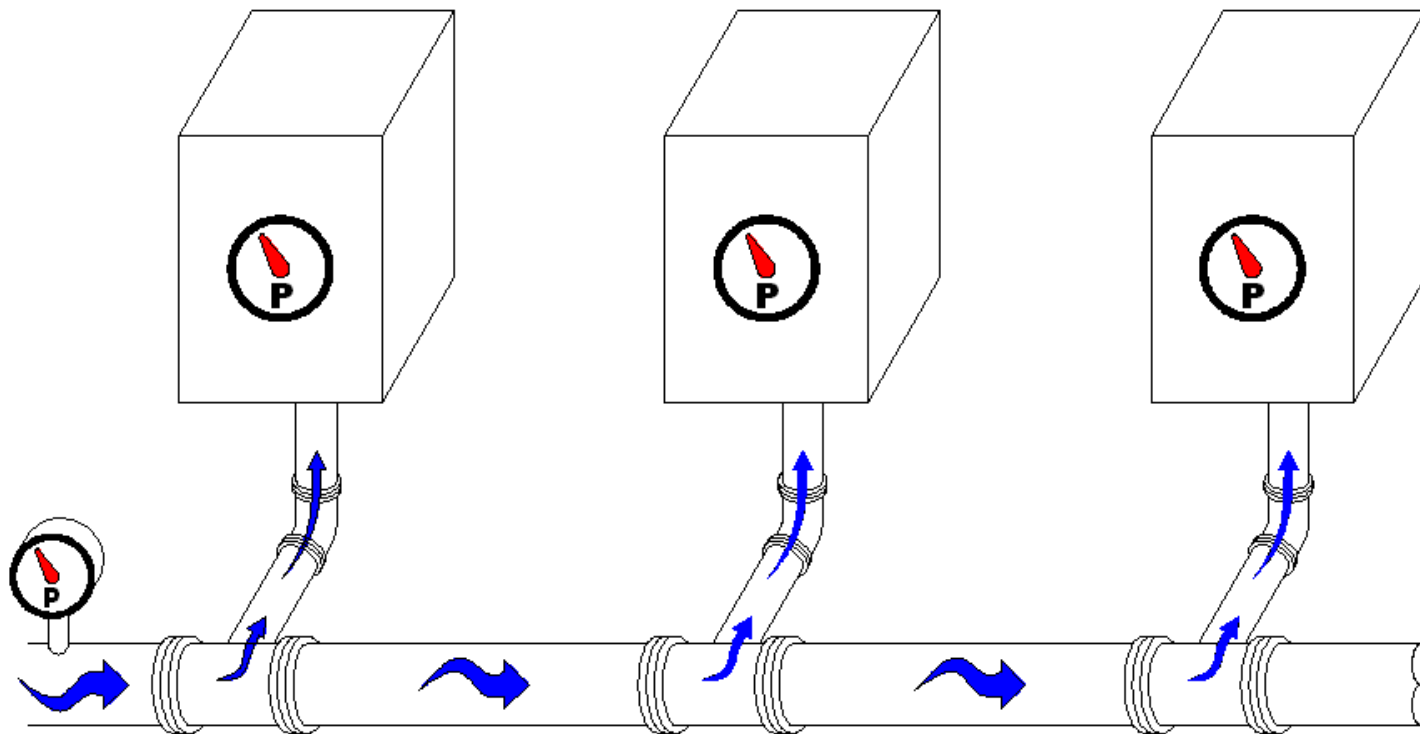
- The reversal of normal flow in a system due to an increase in downstream pressure that is above the supply pressure





Backpressure

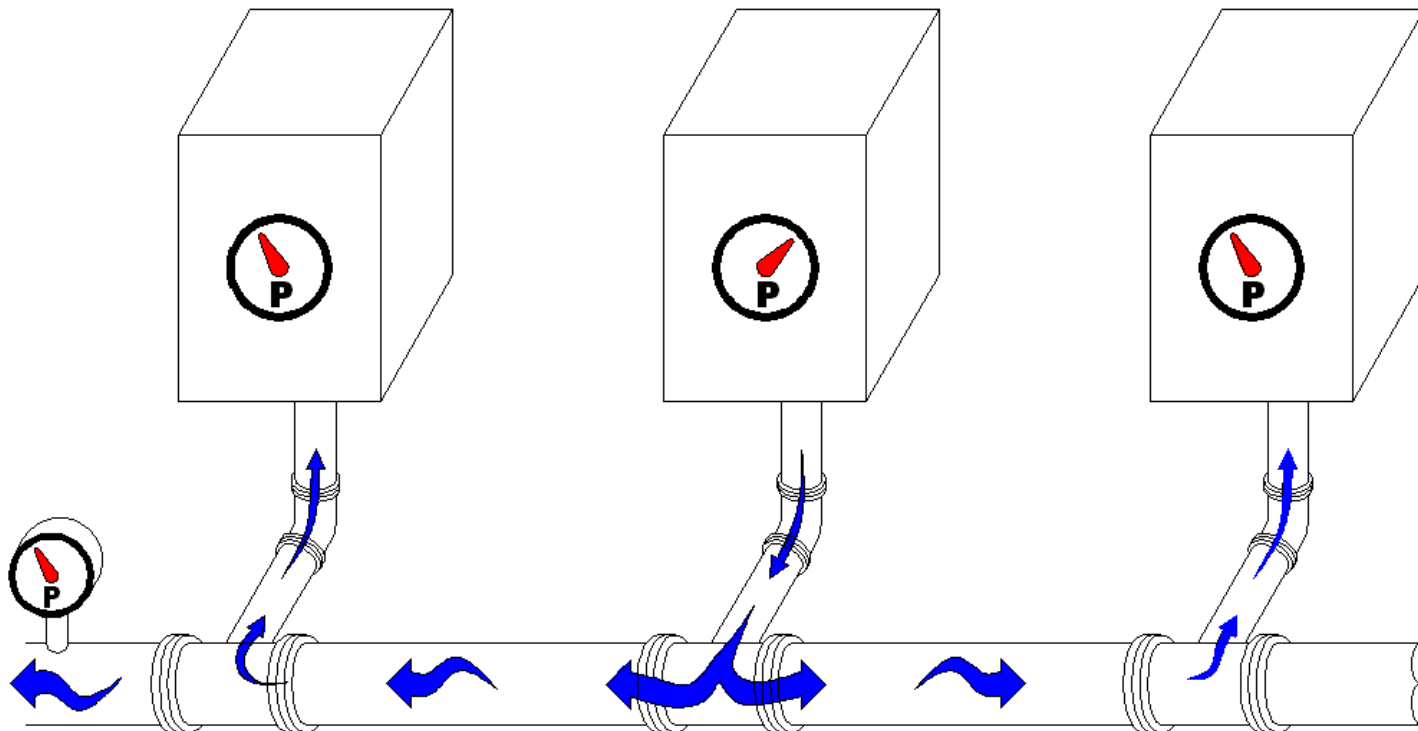
- o Normal flow in a system.





Backpressure

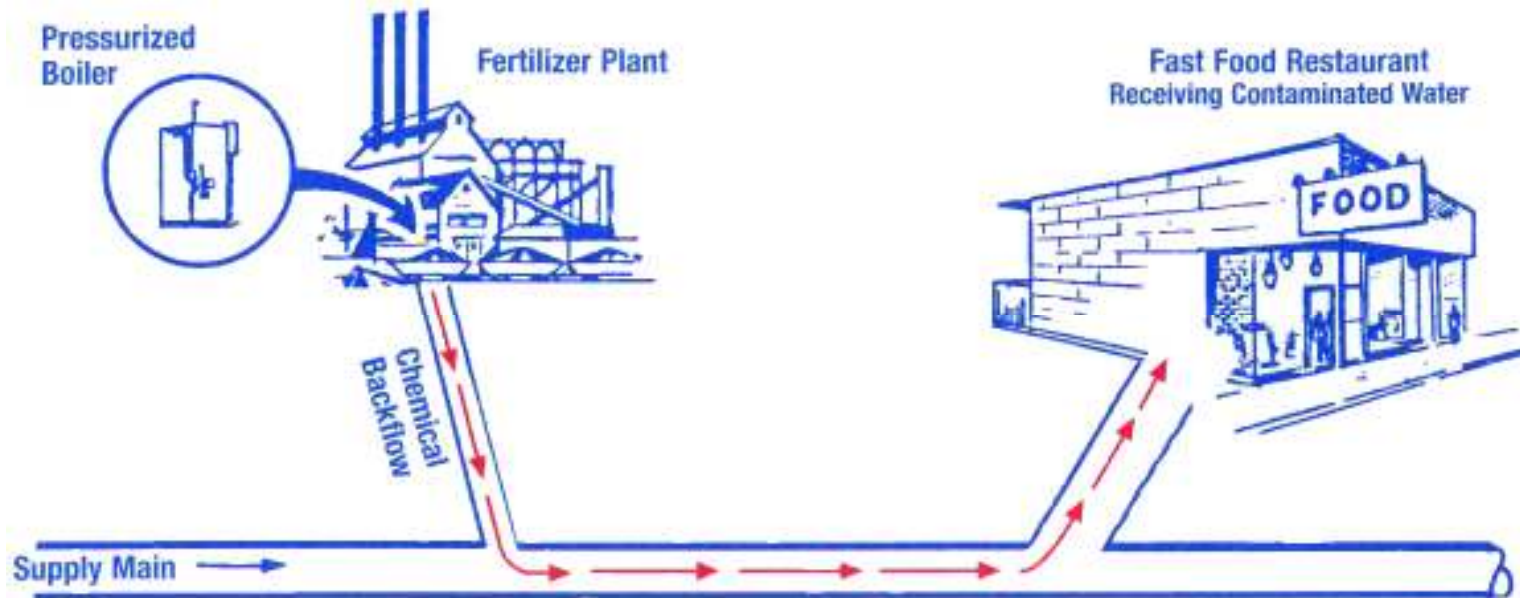
- o Increase in downstream pressure changes flow.





Backpressure

- Customers complained of bitter taste in the soft drinks.
- Over 300 people were served during this period.





Back-siphon age

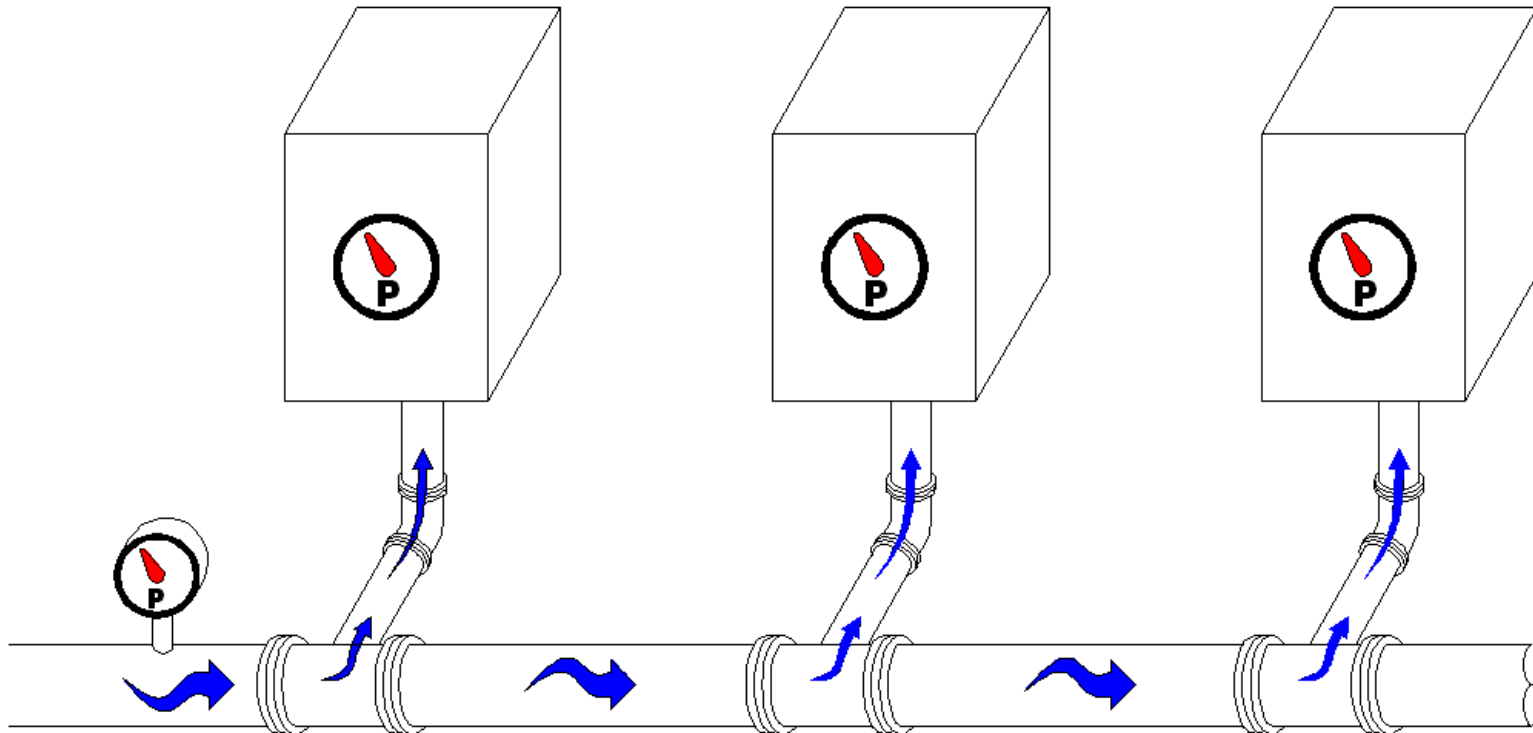
- o The reversal of normal flow in a system caused by a negative pressure or vacuum in the supply piping.





Back-siphon age

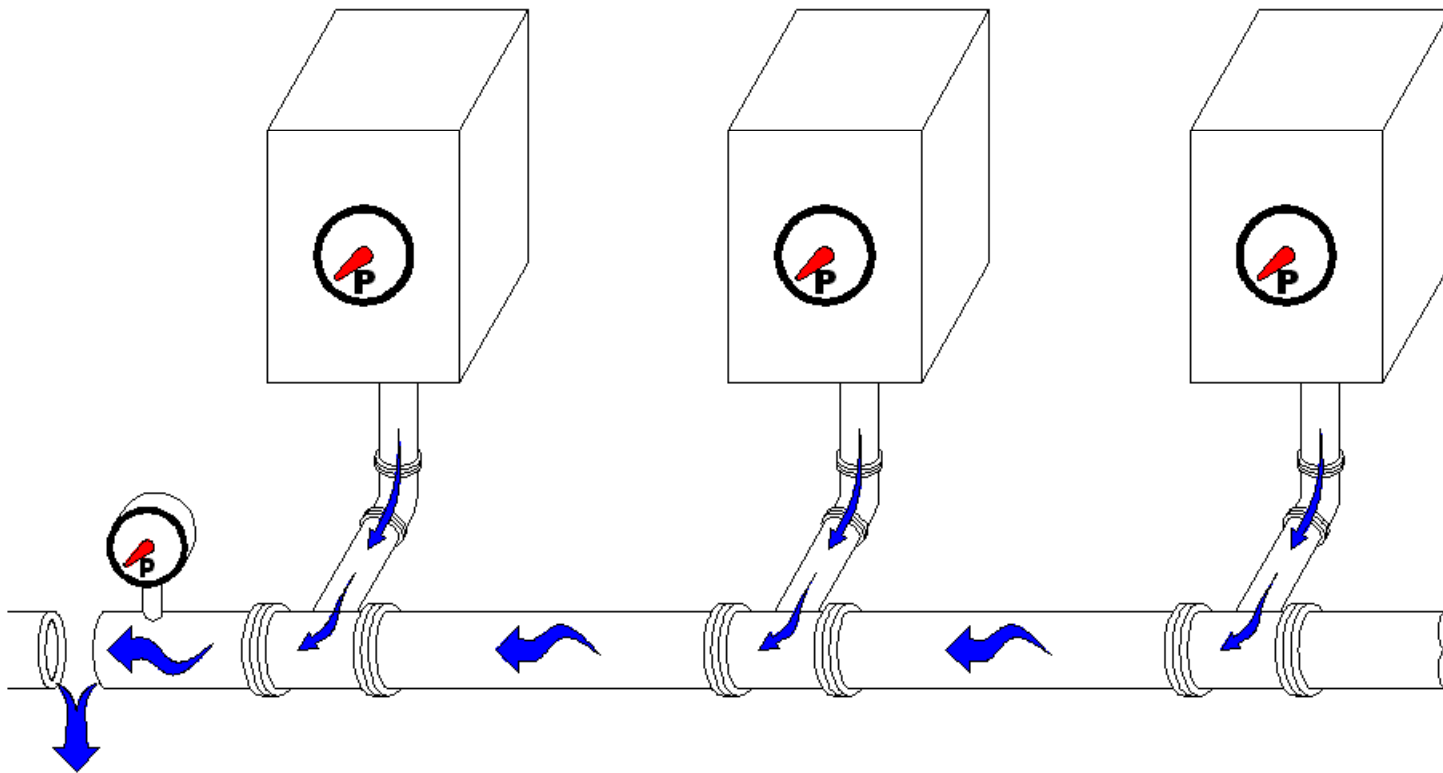
- o Normal flow in a system.





Back-siphon age

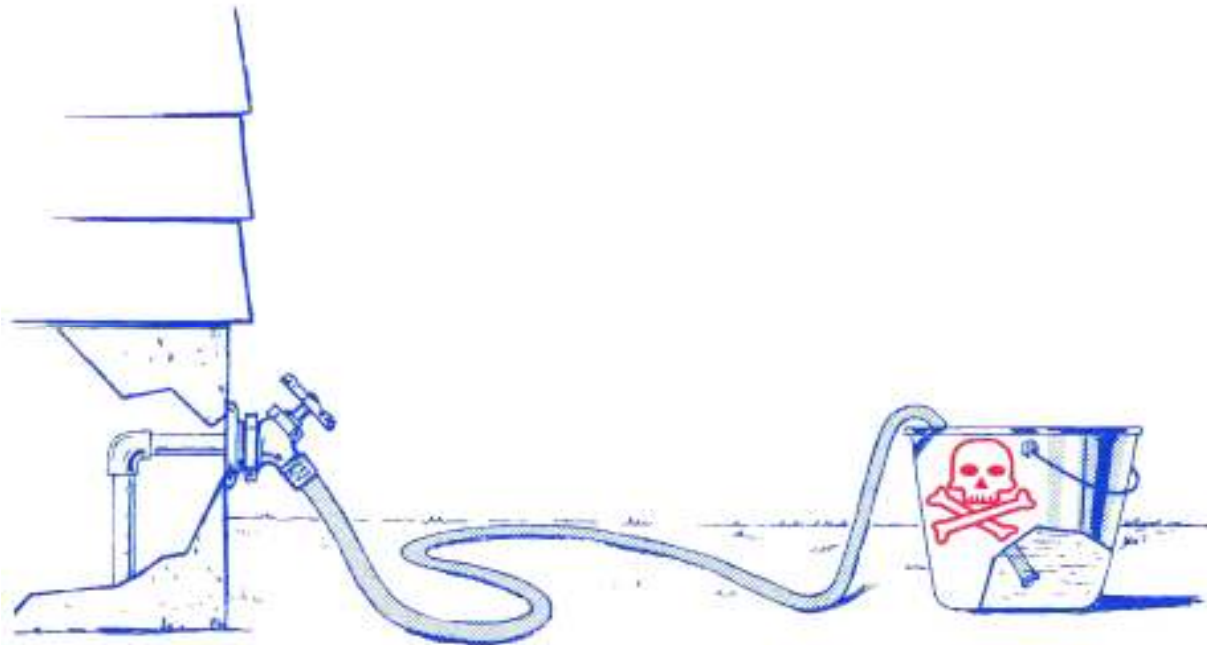
- o reversal of normal flow in a system caused by a negative pressure





Back-siphon age

- Exterminator left hose in dilution during service.
- Water department repairing a water line.





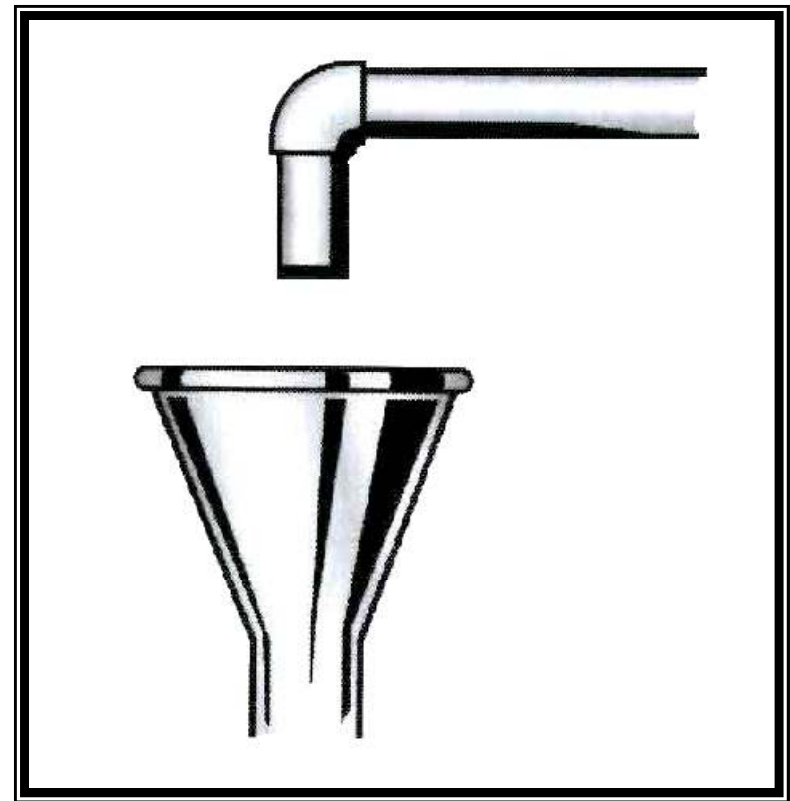
Types of Backflow Preventer

- Air Gap
- Double Check Backflow Preventers
- Double Check Detector Preventers
- Reduced Pressure Backflow Preventers
- Silent Check Valves
- Hose Bib Vacuum Breakers
- Anti-siphon Vacuum Breakers



Air Gap

- Industrial processing applications
- Rarely used in plumbing systems





Double Check Backflow Prevention Assemblies

- FDC Series
- Used as a protection of all direct connections through which foreign material might enter the potable system in concentration which would not constitute a health hazard.
- 1/2" – 10" Devices

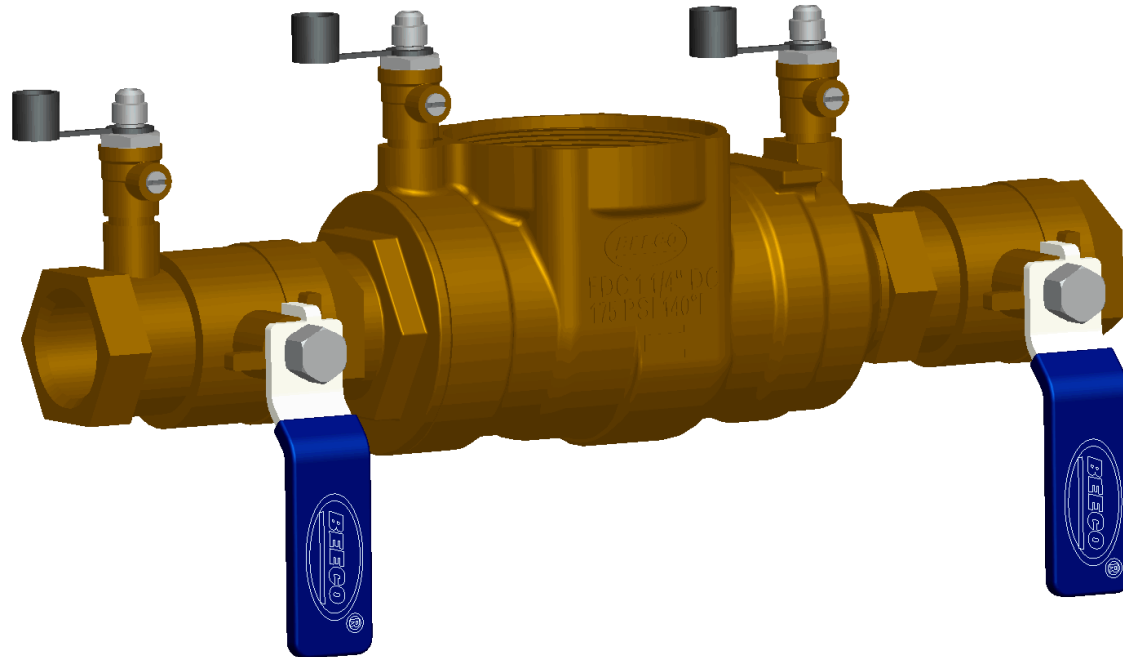
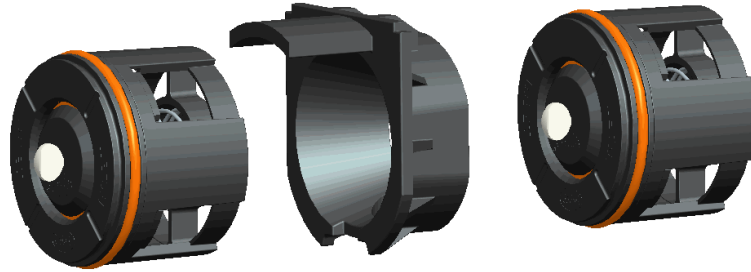
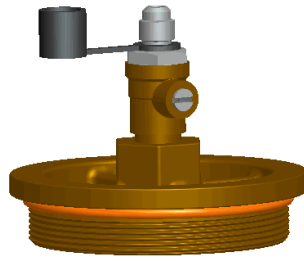


1/2" – 2" FDC

Double Check Backflow Prevention Assemblies

- Bronze Bodies
- Will also offer Low Lead for California Market.







1/2" – 2" FDC Check Valve Assembly





1/2" – 2" FDC Check Valve Assembly





1/2" – 2" FDC Check Valve Assembly



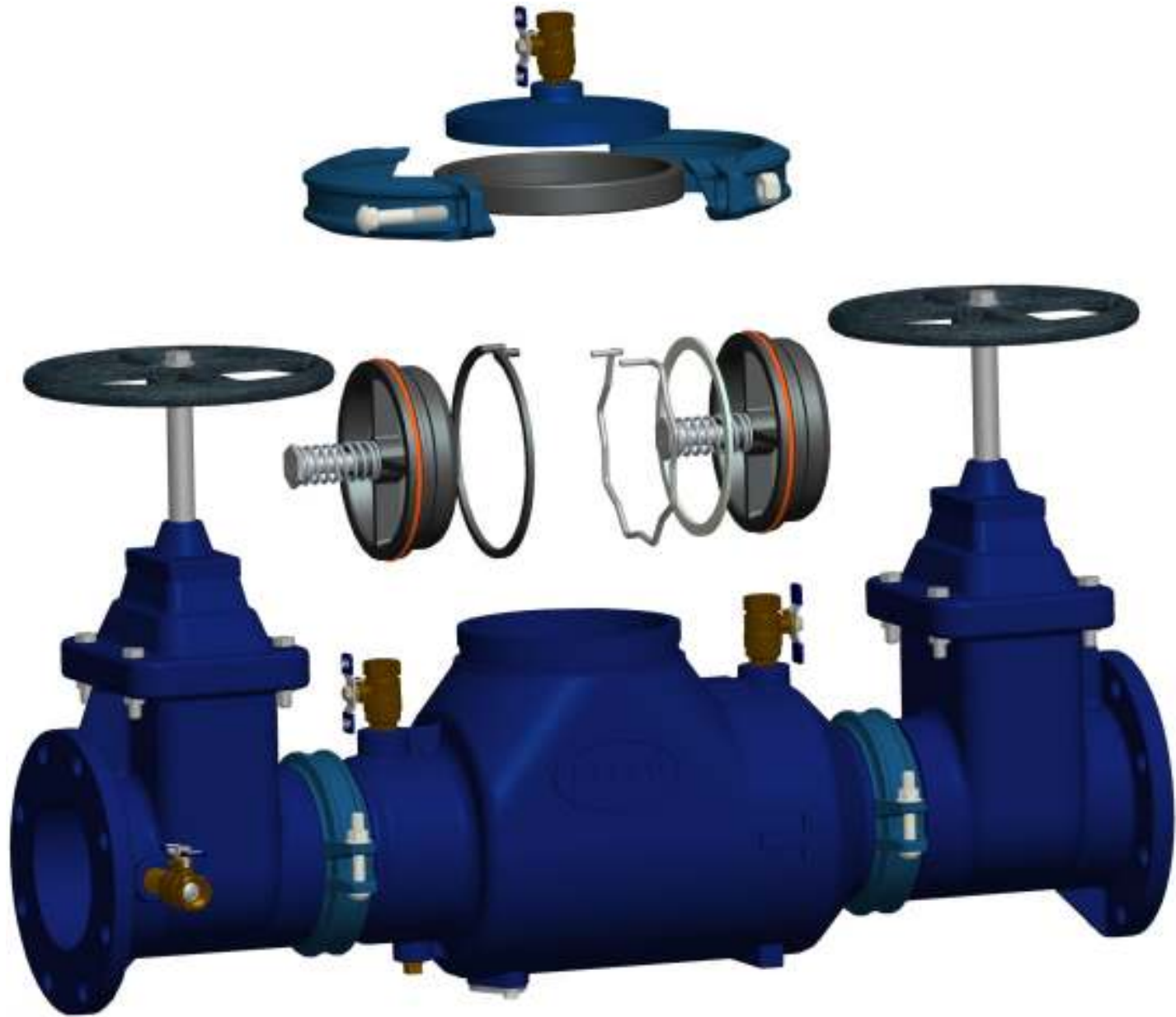


2 1/2" – 10" FDC

Double Check Backflow Prevention Assemblies

- o Ductile iron bodies with epoxy coating







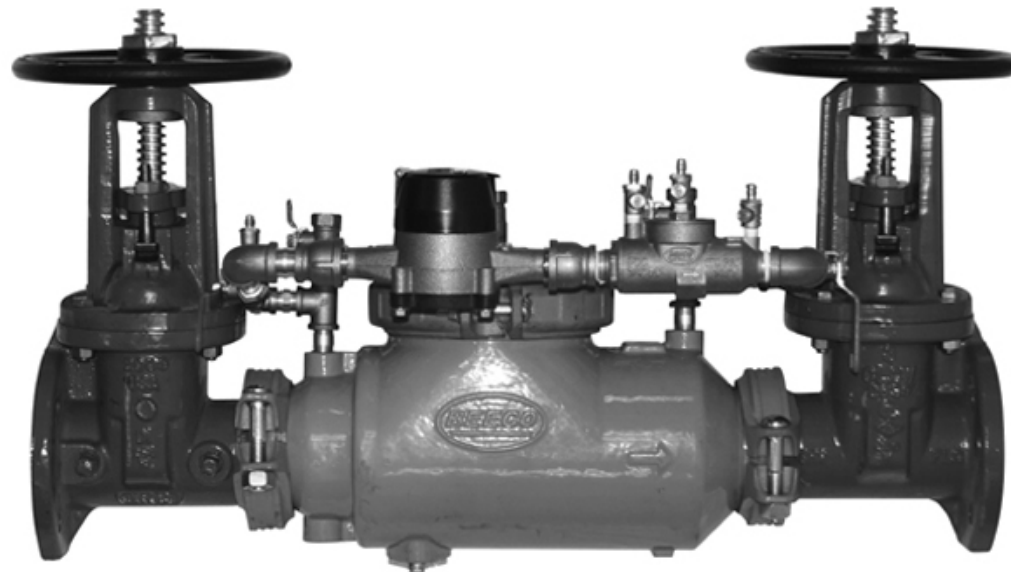
2 1/2" – 10" FDC Check Valve Assembly





Double Check Detector Assemblies

- DCDA Series
- Incorporates a meter to detect and measure leaks and unregulated usage
- 2 1/2" – 10" sizes





Reduced Pressure Backflow Prevention Assemblies

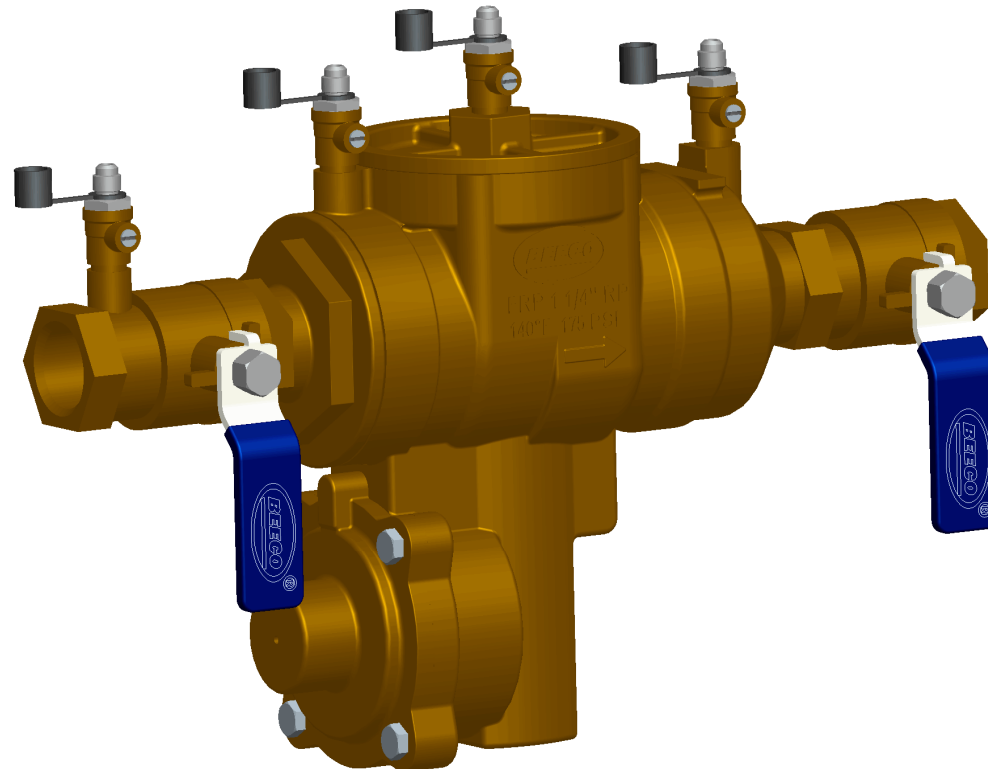
- FRP Series
- Used on all direct connections where there is the possibility of contamination by a substance that has a potential health hazard
- 1/2" – 10" Devices

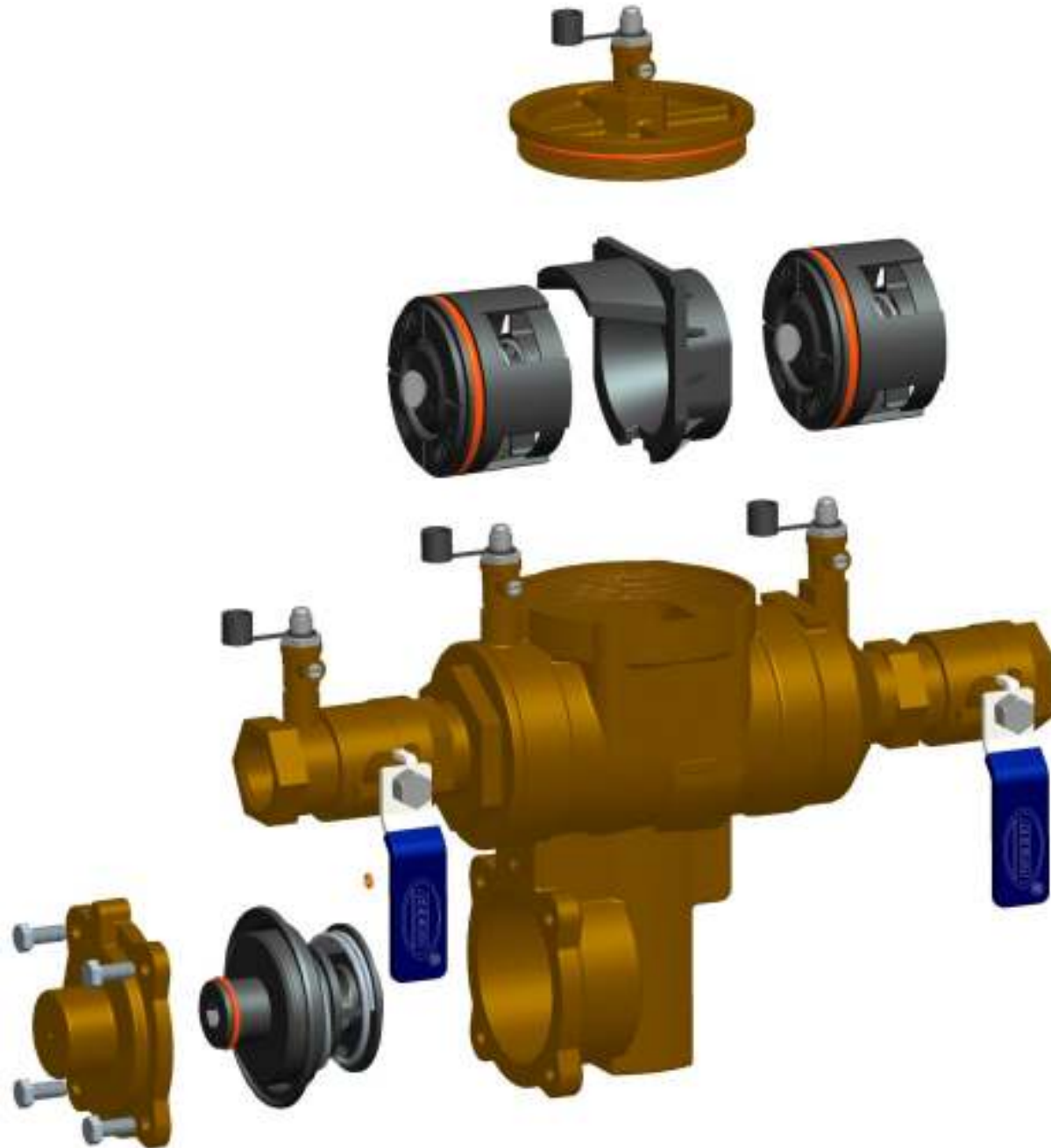


1/2" – 2" FRP

Reduced Pressure Backflow Prevention Assemblies

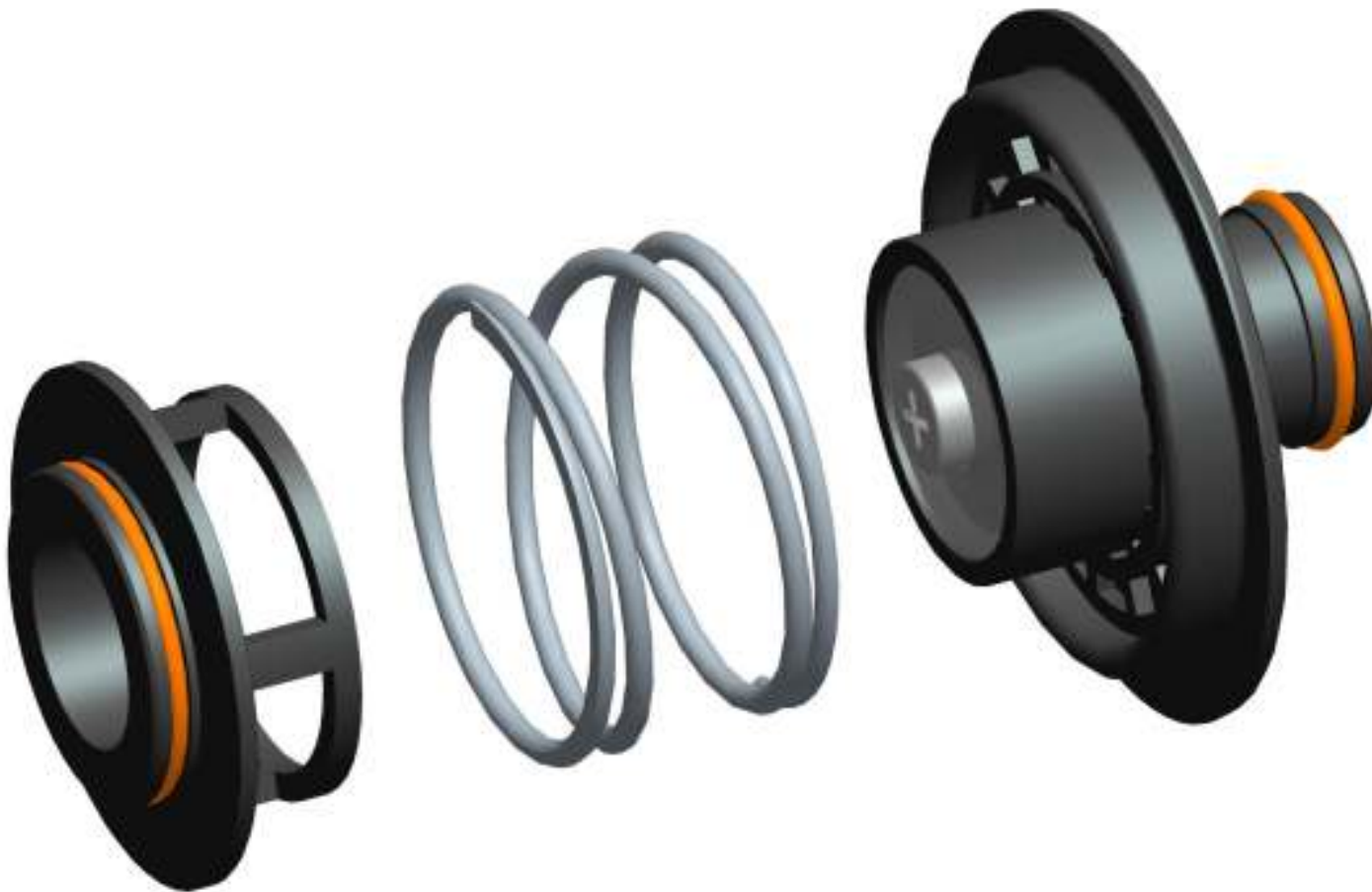
- Bronze Bodies
- Will also offer Low Lead for California Market.







1/2" – 2" FRP Relief Valve Assembly





1/2" – 2" FRP Relief Valve Assembly



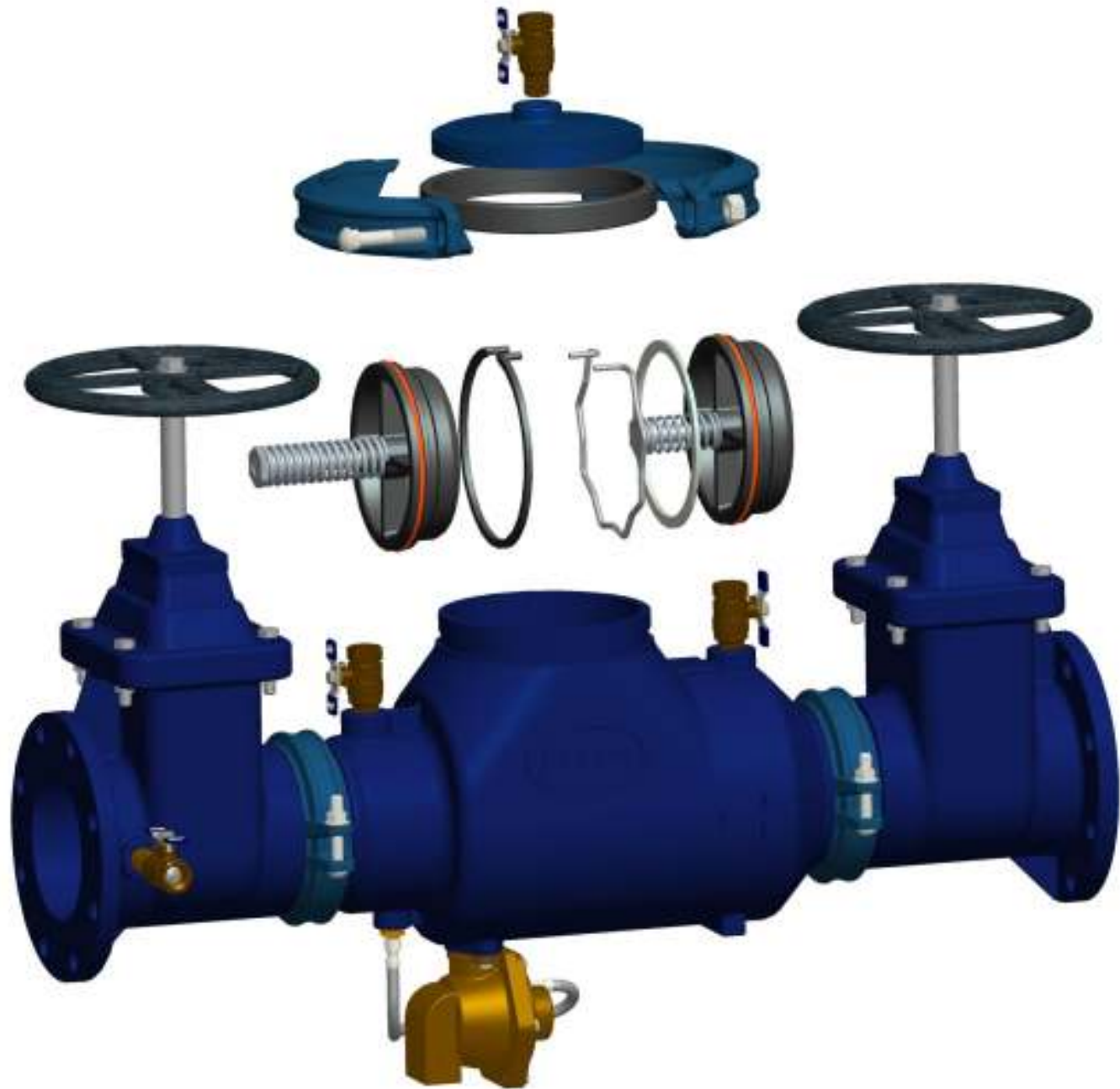


2 1/2" – 10" FRP

Reduced Pressure Backflow Prevention Assemblies

- o Ductile iron bodies with epoxy coating







2 1/2" – 10" FRP

Check Valve Assembly





2 1/2" – 10" FRP Relief Valve Assembly





2 1/2" – 10" FRP Relief Valve Assembly





2 1/2" – 10" FRP

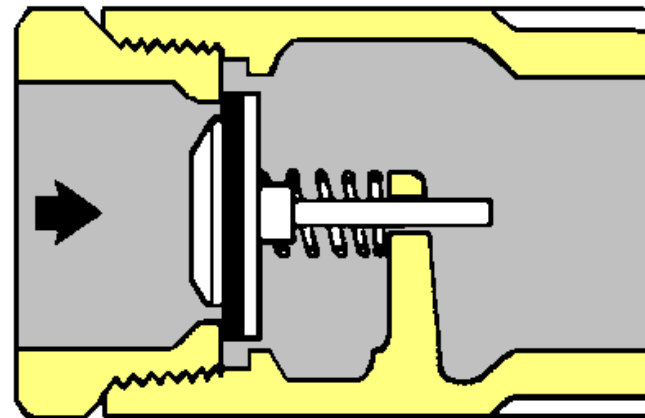
Check Valve Assembly





Silent Check Valve

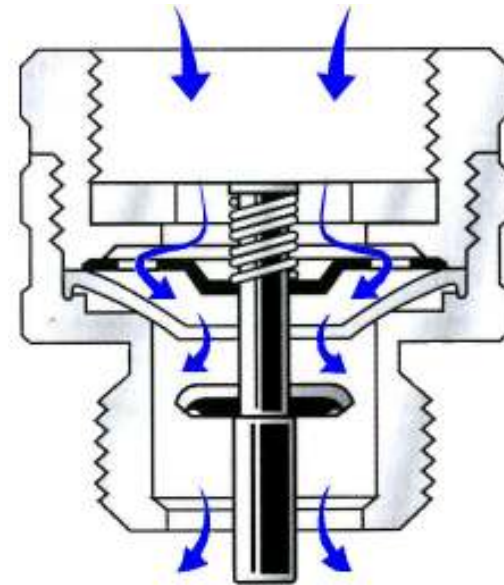
- CV Series
- Low Lead devices
- Available in Threaded or Sweat applications





Hose Bib Vacuum Breaker

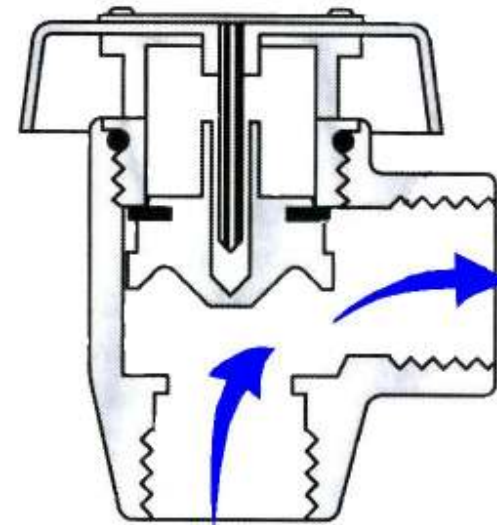
- HBVB Series
- Used wherever there is a possibility of a hose being attached which could be introduced to a contaminant.
- Attach to sill cocks and threaded faucets
- Available in Rough Brass or Chrome Plated





Anti-siphon Vacuum Breaker

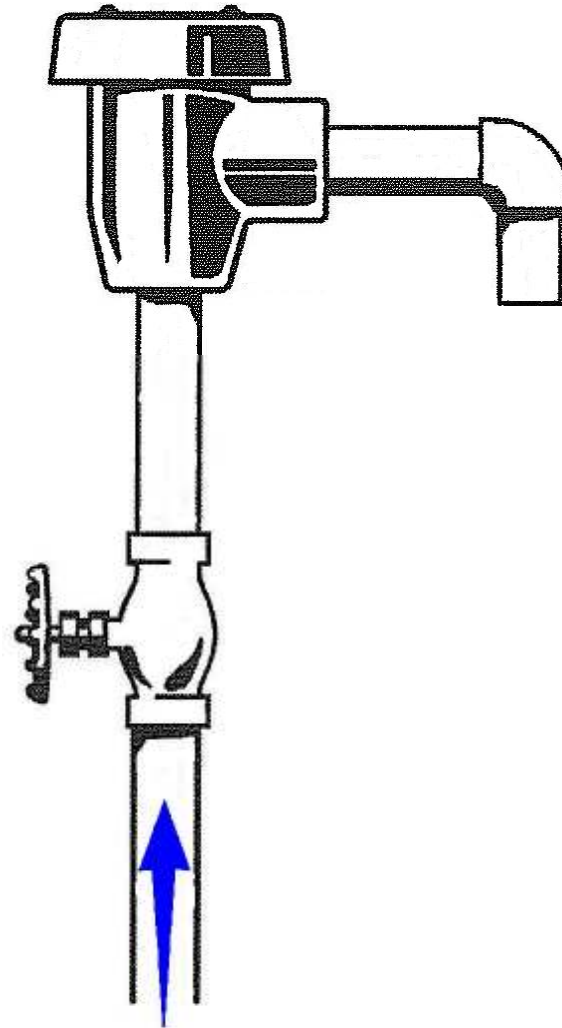
- ASVB Series
- Incorporates an atmospheric vent in combination with a check valve.
- Cannot be used under continuous pressure
- Attach to sill cocks and threaded faucets
- Available in Rough Brass or Chrome Plated





Anti-siphon Vacuum Breaker

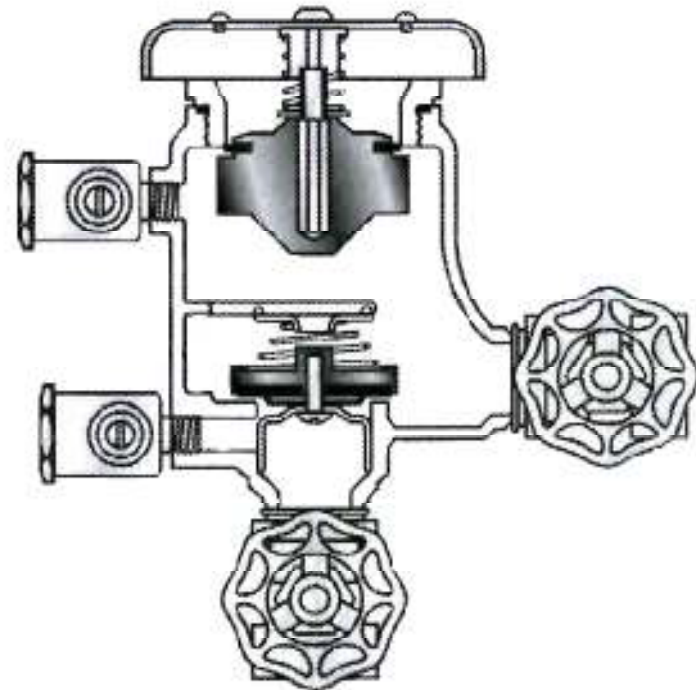
- ASVB Series
- Typical installation





Pressure Vacuum Breaker

- PVB Series
- Used in systems to protect from cross-connection where it is not subjected to backpressure
- Can be used under continuous pressure





Pressure Vacuum Breaker

- o PVB Series
- o Typical installation

