



## Assessment of Hazards and Selection of Assemblies

<u>Premises Isolation</u>	<u>Assessment of Hazard</u>	<u>Required Assembly</u>
Aircraft and missile plants	Health	RPBA or AG
Animal feedlots	Health	RPBA or AG
Automotive plants	Health	RPBA or AG
Breweries	Health	RPBA or AG
Canneries, packing houses	Health	RPBA or AG
Commercial car wash facilities	Health	RPBA or AG
Commercial laundries	Health	RPBA or AG
Cold storage facilities	Health	RPBA or AG
Connection to sewer pipe	Health	AG
Dairies	Health	RPBA or AG
Docks and dockside facilities	Health	RPBA or AG
Dye works	Health	RPBA or AG
Food and beverage processing plants	Health	RPBA or AG
Hospitals, morgues, mortuaries, medical clinics, dental clinics, veterinary clinics, autopsy facilities, sanitariums, and medical labs	Health	RPBA or AG
Metal manufacturing, cleaning, processing, and fabrication plants	Health	RPBA or AG
Microchip fabrication facilities	Health	RPBA or AG
Paper and paper products plants	Health	RPBA or AG
Petroleum processing or storage facilities	Health	RPBA or AG
Photo and film processing labs	Health	RPBA or AG
Plants using radioactive material	Health	RPBA or AG
Plating or chemical plants	Health	RPBA or AG
Pleasure-boat marinas	Health	RPBA or AG
Private/Individual/Unmonitored Wells	Health	RPBA or AG
Reclaimed water systems	Health	RPBA or AG
Restricted, classified or other closed facilities	Health	RPBA or AG
Rubber plants	Health	RPBA or AG
Sewage lift stations	Health	RPBA or AG
Sewage treatment plants	Health	RPBA or AG
Slaughter houses	Health	RPBA or AG
Steam plants	Health	RPBA or AG
Tall buildings or elevation differences where the highest outlet is 80 feet or more above the meter	Nonhealth	DCVA

NOTE: AG = air gap; AVB = atmospheric vacuum breaker; DCVA = double check valve backflow prevention assembly; PVB = pressure vacuum breaker; RPBA = reduced-pressure principle backflow prevention assembly.

\*AVBs and PVBs may be used to isolate health hazards under certain conditions, that is, backsiphonage situations. Additional area of premises isolation may be required.

†Where a greater hazard exists (due to toxicity or other potential health impact) additional area protection with RPBA is required.

## Assessment of Hazards and Selection of Assemblies

<u>Internal Protection</u>	<u>Assessment of Hazard</u>	<u>Recommended Assembly</u>
Aspirators	Nonhealth†	AVB
Aspirator (medical)	Health	AVB or PVB
Autoclaves	Health	RPBA
Autopsy and mortuary equipment	Health	AVB or PVB
Bedpan washers	Health	AVB or PVB
Connection to industrial fluid systems	Health	RPBA
Connection to plating tanks	Health	RPBA
Connection to salt-water cooling systems	Health	RPBA
Connection to sewer pipe	Health	AG
Cooling towers with chemical additives	Health	AG
Cuspidors	Health	AVB or PVB
Degreasing equipment	Nonhealth†	DCVA
Domestic space-heating boiler	Nonhealth†	RPBA
Dye vats or machines	Health	RPBA
Fire-fighting system/chemical additives	Health	RPBA
Flexible shower heads	Nonhealth†	AVB or PVB
Heating equipment-		
Commercial	Nonhealth†	RPBA
Domestic	Nonhealth†	DCVA
Hose bibbs	Nonhealth†	AVB
Irrigation systems-		
with chemical additives	Health	RPBA
without chemical additives	Nonhealth†	PVB
Kitchen equipment - Commercial	Nonhealth†	AVB
Lab bench equipment	Health or Nonhealth†	AVB or PVB
Ornamental fountains	Health	AVB or PVB
Swimming pools-		
Private	Nonhealth†	PVB or AG
Public	Nonhealth†	RPBA or AG
Sewage pump	Health	AG
Sewage ejectors	Health	AG
Shampoo basins	Nonhealth†	AVB
Specimen tanks	Health	AVB or PVB
Steam generators	Nonhealth†	RPBA
Steam tables	Nonhealth†	AVB
Sterilizers	Health	RPBA
Tank vats or vessels containing toxic substances	Health	RPBA
Trap primers	Health	AG
Vending machines	Nonhealth†	RPBA or PVB
Watering troughs	Health	AG or PVB

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## Cross-Connection Inspection Checklist

### Medical/Laboratory

Aspirator, medical  
Aspirator, Hydro  
Autoclave  
Autopsy Table  
Auxiliary Water System  
Bedpan Washer  
Bottle Washer  
Colonic Irrigator  
Condenser  
Cup Sink  
De-Ionized Water System  
Dental Cuspidor  
Digester  
Distillation Equipment  
Electron Spectroscope  
Fermentation Tank  
Flushing Floor Drains  
Gas Chromatograph  
Heat Exchanger  
Hydro-Therapy Bath  
Kjeldahl  
Kjeltec Analyzer  
Laundry Equipment  
Mass Spectrograph  
Pipette Washer  
Retort  
Sitz Bath  
Spectrophotometer  
Thermal Energy Analyzer  
Ultrasonic Bath  
X-Ray Equipment

### Specialty

Aspirator, Weedicide  
Auto Shampoo and Wax  
Baptismal Fountain  
Blueprint Machine  
Degreasing Equipment  
Dye Vats  
Etching Tanks  
Radiator Flushing Equipment  
Starch Tanks  
Steam Cleaner  
Welder, Water Cooled

### Kitchen/Restaurant

Coffee Urn  
Cooking Kettle  
Dishwasher  
Garbage Can Washer  
Garbage Disposal  
Grease Trap  
Ice Maker  
Mop Sink  
Overhead Spray Hose  
Potato Peeler  
Pressure Cooker  
Steam Table

### Domestic

Bidet  
Dishwasher  
Fertilizer Injector  
Fish Pond  
Hose Bibbs  
Lawn Irrigation  
Photo Lab  
Solar System-      Passive  
                                 Active  
Swimming Pool  
Water Softener  
Well

### Photo Lab

Automatic Developer  
Film Washer  
Photo Processor  
Print Washer  
Photostat Equipment  
Rinse Sinks

### Miscellaneous

Fire Sprinkler System  
Ornamental Fountain  
Hose Bibbs  
Lawn irrigation  
Water Softener

## Checklist

### RPZ

All Medical Facilities  
Animal Clinic  
Morgue, Mortuary, Autopsy Facility  
Petroleum or Gasoline Storage  
Premise where Inspection is Restricted  
Commercial Laundry/Dry Cleaning  
Plating or Chemical Plants  
Marinas, Docks, and Dockside Facilities  
Food and Beverage Processing Plants  
Car Wash Facilities  
Manufacturing/Processing (hazardous material on site)  
Film Developers  
Grocery Store (with gasoline dispensing)  
Fire Sprinkler (chemicals added)  
Lawn Sprinkler/Irrigation (chemicals added)  
Greenhouse  
Schools (with labs)  
Transportation Terminal  
Multiple Services Interconnected  
Service Station - Automotive  
Auto/Boat Repair Facilities  
Appliance Repair Facilities

### DC

Barber Shop or College  
Beauty Shop or College  
Food Handling  
Retail Department Store  
Dog/Cat Kennel (boarding only)  
Home for Aged (no medical facilities)  
Fire Sprinkler (no chemical additives)  
Laundromat/Washateria  
Grocery Store (no gasoline dispensing)  
Apartments  
Manufacturing/Processing (no hazmat on site)  
Lawn Sprinklers  
Schools (no labs)  
Multi-Story Building