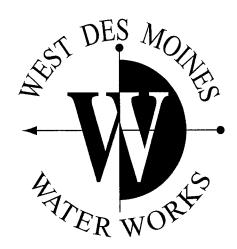
STANDARDS FOR PROTECTIVE DEVICES

- 1. This brochure supplements the Plumbing Code of the City of West Des Moines by setting out standards for the installation of protective devices when such devices are required because a cross connection exists.
- 2. The City's Plumbing Code (Code of Ordinances Title 8, Chapter 2, Article C, Plumbing Code), is based on the current edition of the International Plumbing Code. The City's Plumbing Code provides regulations for installation of protective devices for isolation.
- 3. Another of the City's codes (Title 8, Chapter 2, Article G, Cross-Connection Control; Containment Provisions), contains regulations for installation of protective devices for containment. Refer to this code for definitions of the terms used in this brochure.
- 4. This brochure provides examples of the types of facilities or uses of water which present various levels of hazard to the drinking water supply. The list should not be construed as being complete. Contact the West Des Moines Water Works for requirements for facilities or uses of water not shown in the list.
- 5. Containment is a method of backflow prevention which requires the installation of a backflow prevetion assembly at the wter service entrance.
- 6. Isolation is a method of backflow prevention in which a backflow prevention assembly is located at the cross-connection, rather than at the water service entrance.



MISSION

The mission of the West Des Moines Water Works is to provide adequate quantities of water at reasonable pressures and at the lowest possible cost to our customers, while meeting or bettering all governmental water quality standards.

OUR VALUES

We, the employees of the West Des Moines Water Works, through teamwork and cooperation, are committed to provide the highest quality of service with honesty and integrity to the community we serve.

We take pride in providing effective, dependable services while striving to achieve excellence through vision and innovation.

Cross Connection Control Program

Standards for Protective Devices for Containment



West Des Moines: A City of Tradition - Vision - Opportunity

DEGREE OF HAZARD

pollution. The codes referred to in this brochure define two degrees of hazard, as follows: connection or water service which indicates if it has the potential to cause contamination or The Degree of Hazard is the rating of a cross-

affect the aesthetic qualities of such potable but which does adversely and unreasonably does not create a hazard to the public health, connection which may cause an impairment of waters for domestic use. the quality of potable water to a degree which Low Hazard Cross-Connection: A cross

actual hazard to the public health, through sewage, industrial fluids or waste. poisoning or through the spread of disease by connection which may cause an impairment of the quality of the potable water by creating an High Hazard Cross-Connection: A cross-

BACKFLOW PREVENTION DEVICES FOR EXAMPLES OF FACILITIES FOR WHICH CONTAINMENT ARE REQUIRED

In this list:

"RP" means a Reduced Pressure Principle Backflow Preventer. This type of device is used for high hazard cross-connections.

Backflow Preventer. This type of device is used for low hazard cross-connections. **"DCVA"** means a Double Check Valve Assembly

Beverage services using carbonators Buildings over three stories	care is given	Assisted care facilities, if medical	Types of Facilities Rec	Pro
	RP		Required	Protection

RP	Radioactive material plants
R _P	Rendering plants
RP	Power generating plants
	Piers or docks
RP	manufacturing facilities
	Pharmaceutical or cosmetics
RP	storage facilities
	Petroleum processing plants or
RP	handling facilities
	Pesticide manufacturing plants or
₽	Paper products plants
RP	Nursing homes
RP	Morgues
RΡ	Metal plating plants
RP	Metal processing plants
RΡ	Meat packing plants
RP	Machine tool plants
RP	Laundries and dry cleaning plants
RΡ	Laboratories
RΡ	Irrigation systems
RΡ	where patients are seen
	Medical offices
RΡ	Hospitals, medical clinics
RP	Funeral homes
RP	lants
requirements)	nance for additional
쭈	Systems containing anti-freeze
DCVA	Most systems
	Fire protection systems
쭈	facilities
	Film laboratories or processing
RP	Fertilizer plants
RP	Dye works
RP	Dental offices with operatories
RP	Dairies
RP P	Chemical processing plants
RP	wax eductors
	Car washes with recycling and/or
RP	plants
Required	Types of Facilities
Protection	

R R	表	RΡ	RP	Protection Required
facilities Veterinary medical facilities	Swimming pools with piped fill lines Sanitary or storm sewage handling	Sand and gravel processing plants Schools	Restaurants with soap eductors Rubber plants	Types of Facilities
Air gap only RP	RP	주 주	RP RP	Protection Required

shall be installed on each domestic water above, an approved backflow prevention device potential hazard to drinking water quality. service connection containing any real Some examples of these situations are: In addition to the examples shown in the list

Premises having self-draining yard hydrants, fountains, hose boxes or similar devices	Premises cooled with chemically conditioned water	hot water	reservoirs, ponds (when piped to a water system)	public water supply Premises having water storage tanks,	Premises having an auxiliary water which is not connected to a	Types of Facilities	
RP	RP	RP	RP	` RP		Required	Protection

mechanical protective device. An air gap may be substituted for any

0610 or waterworks@wdm-ia.com or call us at P. O. Box 65610, West Des Moines, IA 50265answer your questions. Write to us at (515) 222-3465. West Des Moines Water Works will be glad to