

## Operation & Maintenance of Water System Valves

## Valve Maintenance Benefits

Reliability – the ability of	f a valve to operate a	as expected whe	n required is the
biggest payback in a valve i	maintenance progran	n	

Extended Valve Life – valves that are regularly exercised last longer, and
operation and maintenance costs are always less than unexpected valve
replacement

## **Key Components of a Valve Maintenance Program**

□ Iden	itify all	valves	in vo	ur distri	bution s	svstem
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■ Locate valves	(check tie-ins) and	verify operat	tional informa	ition (i.e.	valve	size	and
operating directio	n						

- Note condition of valve and valve box
- ☐ Identify problem valves and schedule repairs
- ☐ Exercise the valve from fully open to fully closed positions
- ☐ Maintain detailed records for each valve (i.e. operating direction, # of turns, condition of valve components, location coordinates, etc.)
- ☐ Develop an annual inspection & exercising program for all valves in your system

## **Valve Exercising Tips**

- □ Number of turns to fully open depends on valve size. Rule of thumb is 3 times valve size plus 2 turns. A 150 mm (6 inch) valve takes about 20 turns to fully close.
- ☐ When closing a valve, make 4 or 5 turns then reverse for a turn or two, and repeat until fully closed. This will help scrub off accumulated debris from the gate.
- ☐ Resist the urge to "crank it" when meeting resistance. Small turns in each direction will help, and will avoid a broken valve stem.
- ☐ Count the turns to fully open and fully close the valve they should match.
- ☐ After exercising valves, open a nearby hydrant to flush out scrubbed off debris.
- ☐ Make safety a priority wear safety vests, and use traffic control.

