

BEFORE LEAVING THE OFFICE

Situation	Examples	Requirements & Considerations
High traffic area	N/A	<ul style="list-style-type: none"> Notify Water Distribution Superintendent Traffic control
High-profile customers	<ul style="list-style-type: none"> Medical facilities Large water users Manufacturing facilities 	<ul style="list-style-type: none"> Notify Water Distribution Superintendent Additional coordination Timeliness Advanced notice
High system impact	<ul style="list-style-type: none"> Pumping stations Reservoirs Special pipe/valve config. 	<ul style="list-style-type: none"> Notify Water Distribution Superintendent Additional coordination
Valves inside vault	<ul style="list-style-type: none"> Manhole Box 	<ul style="list-style-type: none"> Confined space entry
Pipe diameter > 14 in.	N/A	<ul style="list-style-type: none"> Notify Water Distribution Superintendent Special equipment Exercise great caution!
Drastic changes in temperature	<ul style="list-style-type: none"> Early Spring Late Fall Winter 	<ul style="list-style-type: none"> If possible, exercise valves in between Spring and Fall
Related valve(s) not in use	<ul style="list-style-type: none"> Valve closed for a reason 	<ul style="list-style-type: none"> Know your system and make sure your maps are updated!
Break in related pipe	N/A	<ul style="list-style-type: none"> Water quality tests required

WHILE PERFORMING MAINTENANCE

Valve Diameter (in.)	Approximate # of Turns	Recommended Tool
1	5	Valve key
2	8	
3	11	
4	14	
6	20	
8	26	
10	32	
12	38	
14	44	
16	50	
18	56	
20	62	
24	74	
30	92	
36	110	
42	128	
48	146	
72	218	

BEFORE LEAVING THE SITE

Condition	Descriptors
Inoperable	<ul style="list-style-type: none">• Broken stem• Main valve or bypass spins free• Frozen at operating torque limit• Work order required
Poor	<ul style="list-style-type: none">• Packing leak cannot be snugged• High torque level (> 300 ft-lbs.)• Unstable torque• Open/closed positions not shown clearly on torque chart
Fair	<ul style="list-style-type: none">• Valve must be in snugged position to avoid packing leak• Required multiple exercise cycles (> 3) to reduce torque• Intermediate torque level (> 200 ft-lbs.)• Stable torque• Open/closed positions show clearly on torque chart
Good	<ul style="list-style-type: none">• Operating nut backs off quarter-turn after last exercise without leaking• Low torque (< 200 ft-lbs.)• Stable torque