Ward Valve Installation Instructions

Model 816 & 816FL

Flomatic Corporation

EXCESSIVE HEAT WILL HARM SEAT

CAUTION:
It is the installers and/or system designer's responsibility to ensure that these valves are installed in accordance with applicable and current ANSI standards.

INSTALLATION:
FAILURE TO FOLLOW THESE INSTRUCTION WILL VOID ANY WARRANTY
1. Ward valves are designed to be installed at any angle.
2. If welding, remove cap, spring, plunger and gasket.
3. Before attempting to install (weld) the valve, put on proper clothing, gloves and eye protection.
4. After valve has cooled, install plunger, spring and new gasket (supplied) per installation instructions listed below.
5. Tighten the cap to torque specified in table below.
6. Pressure and temperature rating of valve shall not be exceeded.

MAINTENANCE:
1. Ward check valves are designed to be virtually maintenance free.
2. If a problem should arise, do not disassemble the valve while the line is under pressure.
3. Repair kits are available should the plunger or spring need replacing.

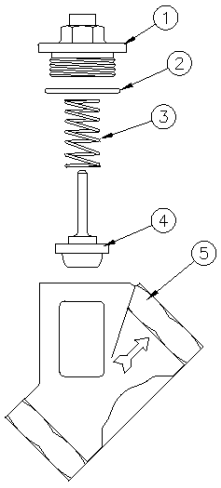
FREEZING:
1. Provide means to protect the valve from freezing and bursting when used with liquids.

FLUID COMPATIBILITY:
1. Consider the corrosive, erosive and adhesive effects of fluids on the valve and piping components. It is your responsibility to ensure that the valve is compatible with the material(s) used in the system.

Repair Kit Installation Instructions

Valve Size (in)	Kit Part Number	Cap Torque (ft/lbs)
¼, ⅜ & ½	CV20-11X-13	30
¾	CV20-11X-14	38
1	CV20-11X-15	45
1-¼	CV20-11X-16	50
1-½	CV20-11X-16	55
2	CV20-11X-18	60

Item	Qty	Description	1ST X Plunger	2ND X Gasket
1	1	Cap		
2	1	Gasket (kit)	1 - Teflon	1 - PTFE
3	1	Spring (kit)		2 - Grafoil
4	1	Plunger Assembly (kit)		
5	1	Body		



Procedure:
1. Before attempting to repair the valve, put on proper clothing, gloves and eye protection.
2. Completely drain system of all fluids and/or pressure.
3. Remove cap, spring, plunger and gasket.
4. Thoroughly clean body cavity area, valve seat and cap. Inspect valve seat, it must be free of nicks, scratches and scoring.
5. Install plunger assembly, spring, and gasket. Refer to the figure above.
6. Locate the plunger stem into the cap hole. Screw in cap slowly to insure proper alignment.
7. Tighten cap to torque specified in table above.

Flomatic Corp, 15 Pruyn's Island, Glens Falls, New York 12801
Phone: 518-761-9797 Fax: 518-761-9798 www.flomatic.com

February 19, 2002 Rev: J (5/26)
Cv30-000-02

Ward Valve Installation Instructions

Model 816 & 816FL

Flomatic Corporation

EXCESSIVE HEAT WILL HARM SEAT

CAUTION:
It is the installers and/or system designer's responsibility to ensure that these valves are installed in accordance with applicable and current ANSI standards.

INSTALLATION:
FAILURE TO FOLLOW THESE INSTRUCTION WILL VOID ANY WARRANTY
1. Ward valves are designed to be installed at any angle.
2. If welding, remove cap, spring, plunger and gasket.
3. Before attempting to install (weld) the valve, put on proper clothing, gloves and eye protection.
4. After valve has cooled, install plunger, spring and new gasket (supplied) per installation instructions listed below.
5. Tighten the cap to torque specified in table below.
6. Pressure and temperature rating of valve shall not be exceeded.

MAINTENANCE:
1. Ward check valves are designed to be virtually maintenance free.
2. If a problem should arise, do not disassemble the valve while the line is under pressure.
3. Repair kits are available should the plunger or spring need replacing.

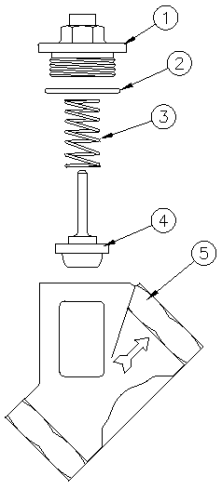
FREEZING:
1. Provide means to protect the valve from freezing and bursting when used with liquids.

FLUID COMPATIBILITY:
1. Consider the corrosive, erosive and adhesive effects of fluids on the valve and piping components. It is your responsibility to ensure that the valve is compatible with the material(s) used in the system.

Repair Kit Installation Instructions

Valve Size (in)	Kit Part Number	Cap Torque (ft/lbs)
¼, ⅜ & ½	CV20-11X-13	30
¾	CV20-11X-14	38
1	CV20-11X-15	45
1-¼	CV20-11X-16	50
1-½	CV20-11X-16	55
2	CV20-11X-18	60

Item	Qty	Description	1ST X Plunger	2ND X Gasket
1	1	Cap		
2	1	Gasket (kit)	1 - Teflon	1 - PTFE
3	1	Spring (kit)		2 - Grafoil
4	1	Plunger Assembly (kit)		
5	1	Body		



Procedure:
1. Before attempting to repair the valve, put on proper clothing, gloves and eye protection.
2. Completely drain system of all fluids and/or pressure.
3. Remove cap, spring, plunger and gasket.
4. Thoroughly clean body cavity area, valve seat and cap. Inspect valve seat, it must be free of nicks, scratches and scoring.
5. Install plunger assembly, spring, and gasket. Refer to the figure above.
6. Locate the plunger stem into the cap hole. Screw in cap slowly to insure proper alignment.
7. Tighten cap to torque specified in table above.

Flomatic Corp, 15 Pruyn's Island, Glens Falls, New York 12801
Phone: 518-761-9797 Fax: 518-761-9798 www.flomatic.com

February 19, 2002 Rev: J (5/26)
Cv30-000-02