

EXCESSIVE HEAT WILL HARM SEAT



CAUTION:

It is the installers and/or system designers responsibility to insure 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. Remove cap, sleeves (optional), 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, sleeves (optional), spring and new gasket (supplied) per installation instructions listed above.
5. Tighten cap to torque specified in table above.
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.

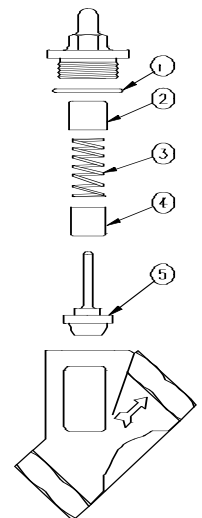
FLUID COMPATIBILITY:

1. Consider the corrosive, erosive and adhesive effects of fluids on the valve and piping components. It is your responsibility to insure 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)
1/4, 3/8 & 1/2	CV20-XXX-13	30
3/4	CV20-XXX-14	38
1	CV20-XXX-15	45
1-1/4	CV20-XXX-16	50
1-1/2	CV20-XXX-16	55
2	CV20-XXX-18	60

Item	Qty	Kit Contains Description	Choosing a Part Kit		
			1 ST X Plunger	2 ND X Sleeves	3 RD X Gasket
1	1	Gasket			
2	1	Outer Sleeve (optional)	1 - Teflon	1 - No Sleeves	1 - PTFE
3	1	Spring	2 - Metal	2 - Sleeves	2 - Grafoil
4	1	Inner Sleeve (optional)			
5	1	Plunger Assembly			



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, sleeves (optional), 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, inner sleeve (optional), spring, outer sleeve (optional) and gasket. Refer to figure above.
6. Locate the plunger stem into the cap hole. Screw in cap slowly to insure proper alignment of the optional sleeve set.
7. Tighten cap to torque specified in table above.

EXCESSIVE HEAT WILL HARM SEAT



CAUTION:

It is the installers and/or system designers responsibility to insure 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. Remove cap, sleeves (optional), 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, sleeves (optional), spring and new gasket (supplied) per installation instructions listed above.
5. Tighten cap to torque specified in table above.
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.

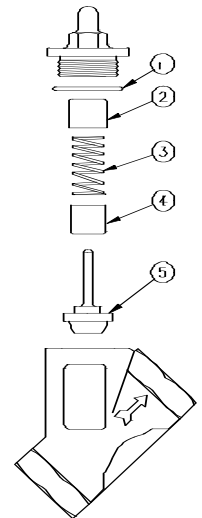
FLUID COMPATIBILITY:

1. Consider the corrosive, erosive and adhesive effects of fluids on the valve and piping components. It is your responsibility to insure 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)
1/4, 3/8 & 1/2	CV20-XXX-13	30
3/4	CV20-XXX-14	38
1	CV20-XXX-15	45
1-1/4	CV20-XXX-16	50
1-1/2	CV20-XXX-16	55
2	CV20-XXX-18	60

Item	Qty	Kit Contains Description	Choosing a Part Kit		
			1 ST X Plunger	2 ND X Sleeves	3 RD X Gasket
1	1	Gasket			
2	1	Outer Sleeve (optional)	1 - Teflon	1 - No Sleeves	1 - PTFE
3	1	Spring	2 - Metal	2 - Sleeves	2 - Grafoil
4	1	Inner Sleeve (optional)			
5	1	Plunger Assembly			



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, sleeves (optional), 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, inner sleeve (optional), spring, outer sleeve (optional) and gasket. Refer to figure above.
6. Locate the plunger stem into the cap hole. Screw in cap slowly to insure proper alignment of the optional sleeve set.
7. Tighten cap to torque specified in table above.