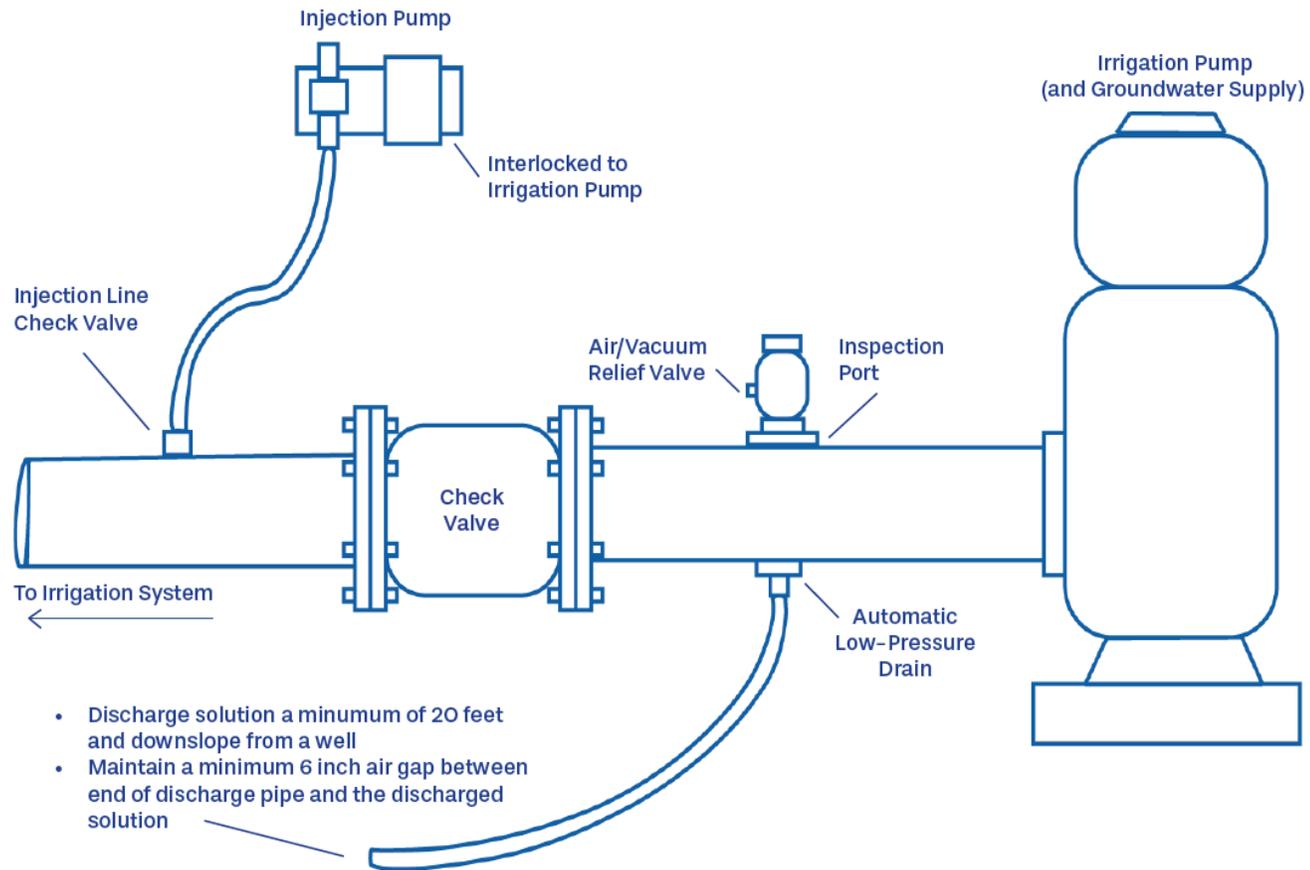




# Backflow Prevention Program

## *Umatilla and Walla Walla Basins*



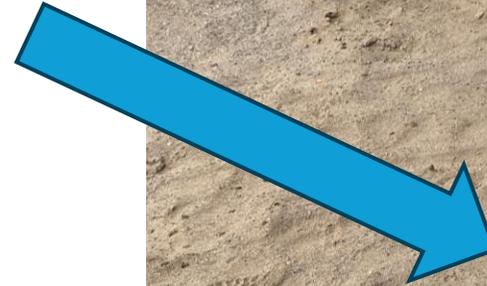
OAR 690-215-0017-Figure 215-1

As shown in the diagram on the left, effective back-flow prevention devices must include all of the following:

- Automatic low-pressure drain
- Inspection port; directly overlying the automatic low-pressure drain
- Irrigation line check valve
- Air/vacuum relief valve
- 20' Discharge Hose
- 6" Air Gap @ end of hose

# IN COMPLIANCE

In cases where hoses may get damaged regularly an alternative length and location maybe permitted with Department approval



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OAR 690-215-0017 (4)(c)

# IN COMPLIANCE



## Backflow Prevention Program *Umatilla and Walla Walla Basins*

# Well houses must be clean of debris and chemicals



# Not In Compliance



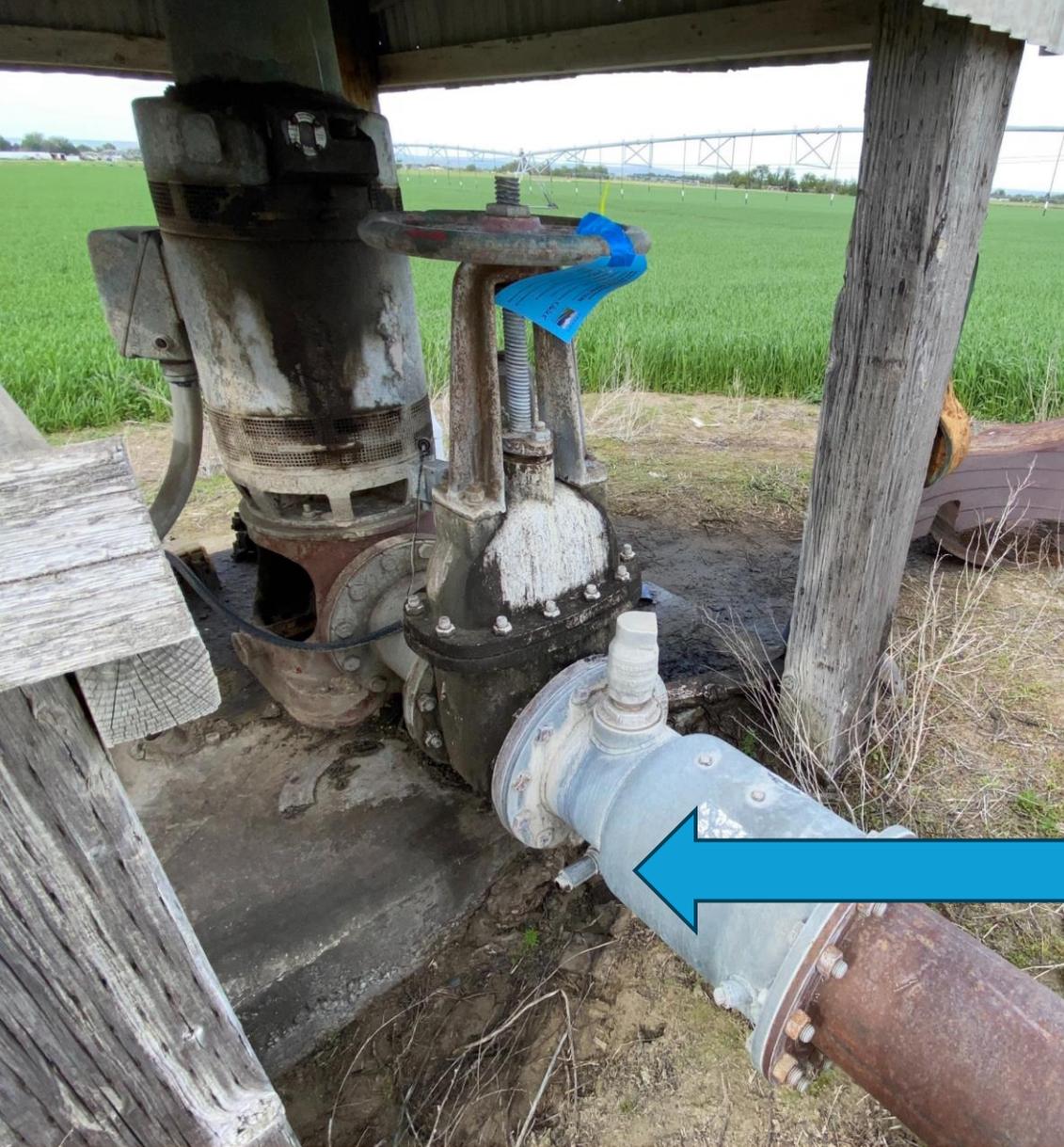
Low pressure drain should be directly under the inspection port



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# Not In Compliance

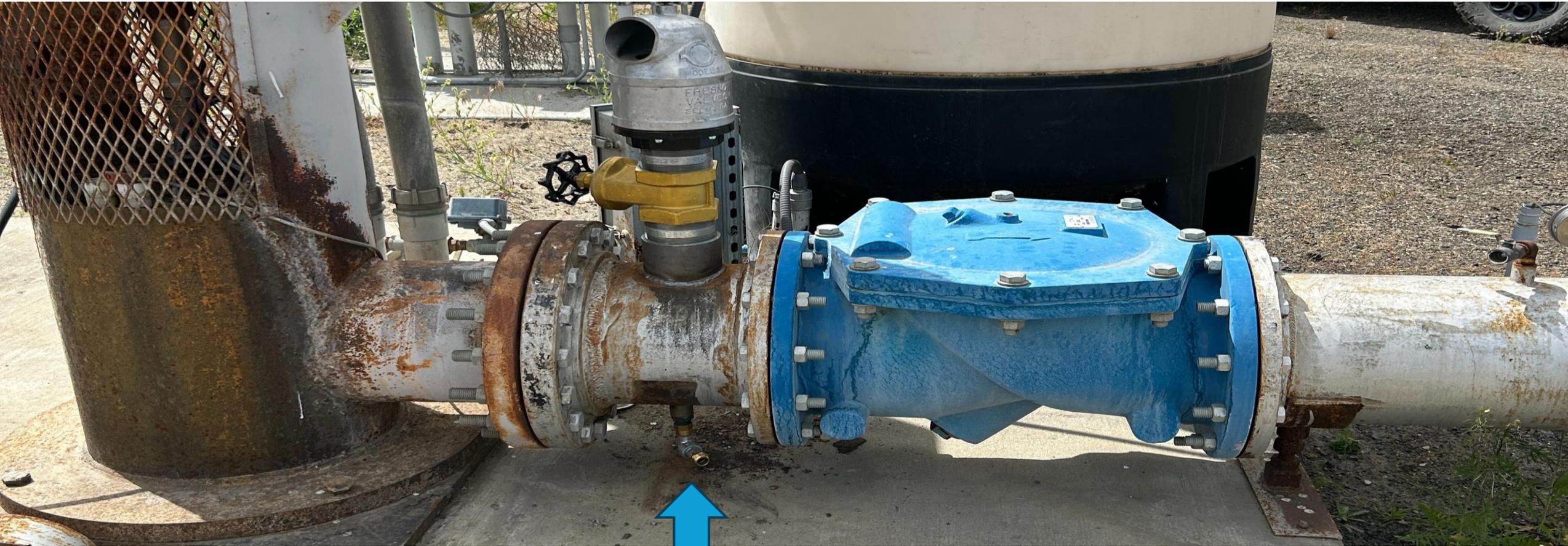


Missing low pressure  
drain and hose



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# NOT IN COMPLIANCE



Missing hose



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# IN COMPLIANCE



Hose directly under  
the inspection port  
and no shut off valve

# Multiple pumps may require additional backflow devices



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# NOT IN COMPLIANCE



Can not plug low pressure drain



# NOT IN COMPLIANCE

Hose is too short  
20' hose requirement



# IN COMPLIANCE

Hose 20' downgradient and 6''  
off the ground



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# NOT IN COMPLIANCE

Hose must be a minimum of  
6 inches off the ground



OAR 690-215-0017 (4)(a)(A)(iv)



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# IN COMPLIANCE



Secured 6 inches off the ground and down gradient

OAR 690-215-0017 (4)(a)(A)(iv)



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# NOT IN COMPLIANCE

\* Open at the ground service

Casings should be a minimum of 12 inches above ground surface or pumphouse floor and covered to protect from outside contamination



# NOT IN COMPLIANCE



Open pit



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OAR 690-215-0050



Wells are required to be covered



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OAR 690-215-0050



Possible cover solution  
for exposed well

Backflow installation in a vault is NOT permitted



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OAR 690-215-0017 (9)



## NOT IN COMPLIANCE

Backflow devices are not allowed in a vault to prevent possible flooding of the device

Possible solution  
for vaults

Expose horizontal  
pipe above ground  
level and install  
backflow system



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Regardless of well type, if connected to any chemigation anywhere on the line it must have a backflow device



# IN COMPLIANCE



EXAMPLE OF A SYSTEM WITH A BOOSTER



## Broken or Missing Flowmeters

\*Please see Cost  
Share Application



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## NOT IN COMPLIANCE

Needs air vent and  
accessible  
inspection port

OAR 690-215-0017 (4) (a) (D)



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# IN COMPLIANCE

Solution for check valve only systems

\* Add inspection port/air vent and low-pressure drain



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Utilizing air gaps as a backflow prevention system will require Department approval

OAR 690-215-0017 (4) (c)



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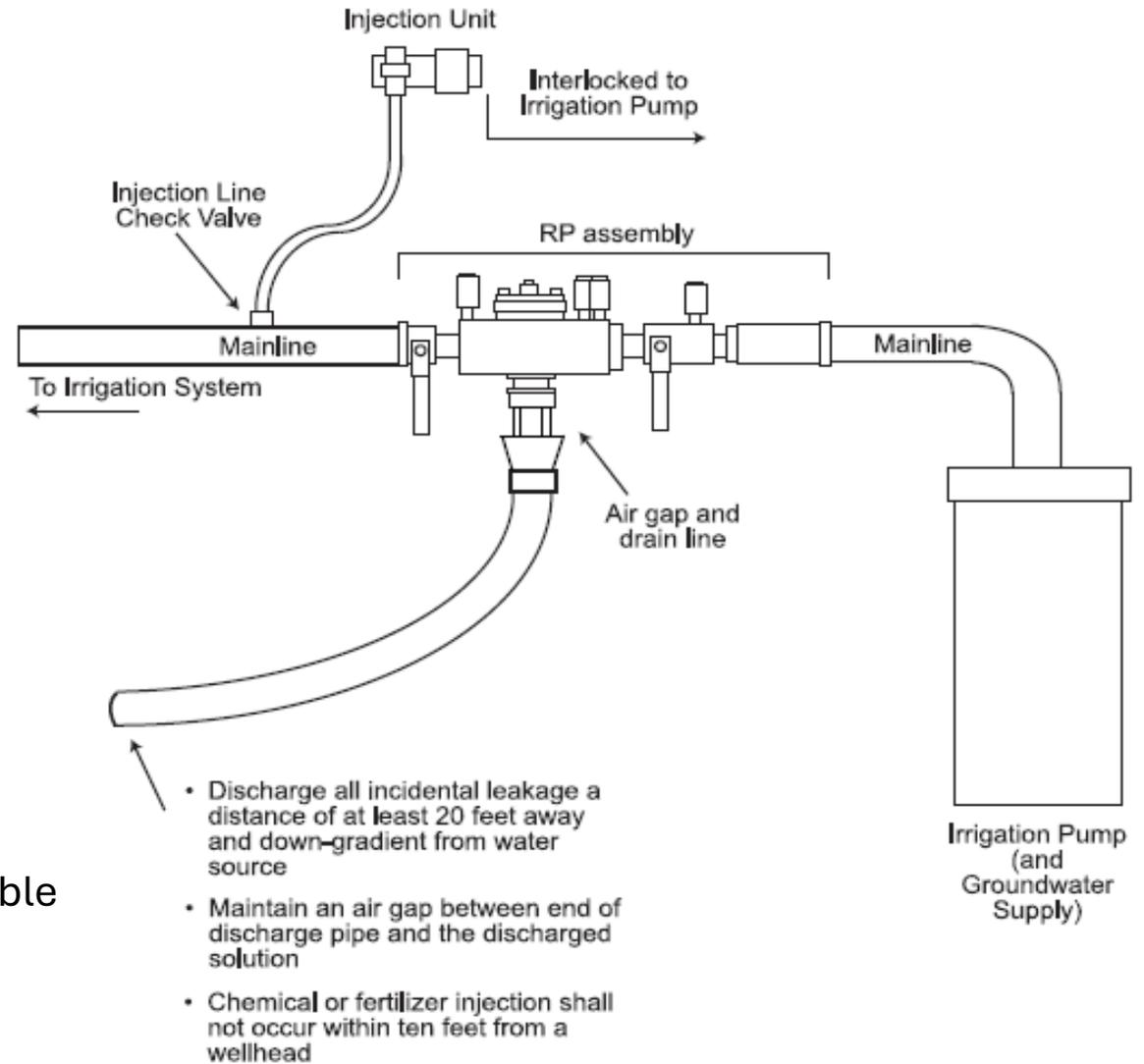
# WHEN MAINLINE IS LESS THAN 4 INCHES

## Reduced Pressure Assembly is Required



One solution is to increase pipe diameter to 4 in or greater if possible

OAR 690-215-0017 (4) (b)



# Backflow Prevention Program

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