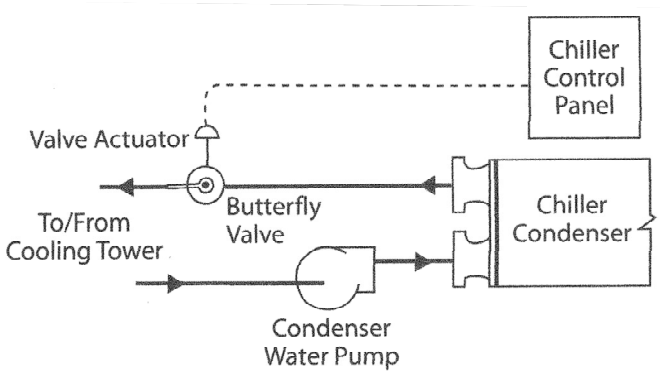
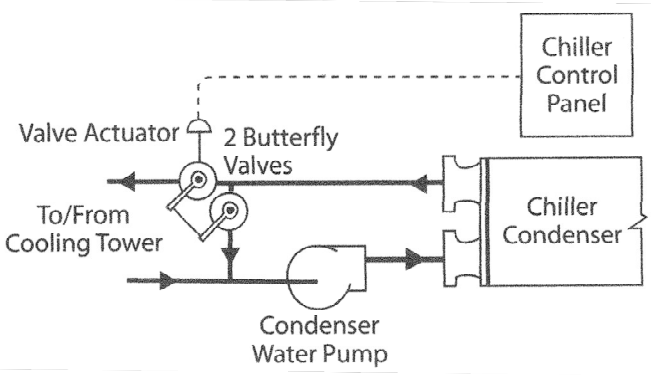
CHILLER HEAD PRESSURE VALVE PIPING ARRANGEMENTS



2-Way Valve Arrangement

Advantages:
Good Control at low cost.
Pumping Cost can be reduced.

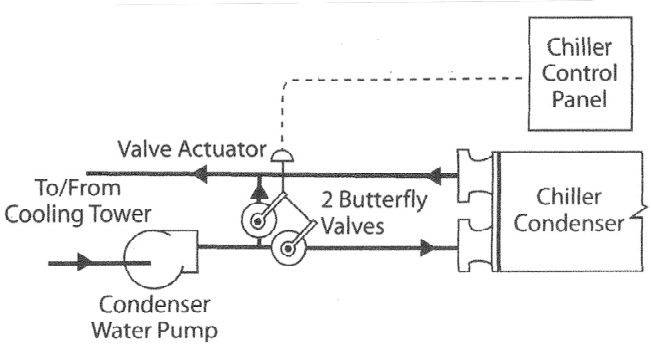
Disadvantages:
Cooling Tower water flow may fall below the minimum limit.
Pump must accommodate variable flow.



3-Way Valve Arrangement with Dedicated CNW Pump

Advantages:
Best Control by maintiaining constant Flow through Condenser.

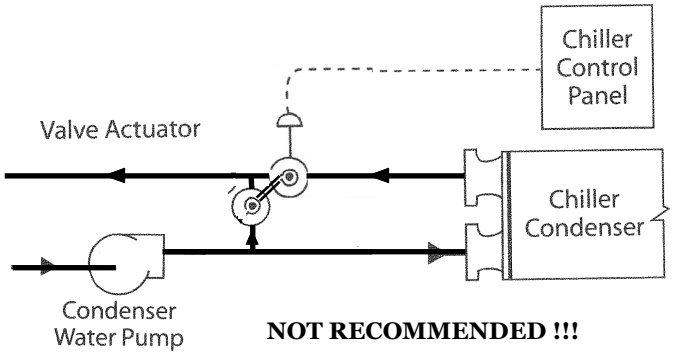
Disadvantages:
Cooling Tower water flow may fall below the minimum limit—Bypassing Tower.
3-Way is more expensive than 2-Way.



3-Way Valve Arrangement with NonDedicated CNW Pump With Valve located on the CNW Entering side of Chiller

Advantages:
Faster Temperature Response since not bypassing Cooling Tower.
Number of CNW Pumps can be reduced.

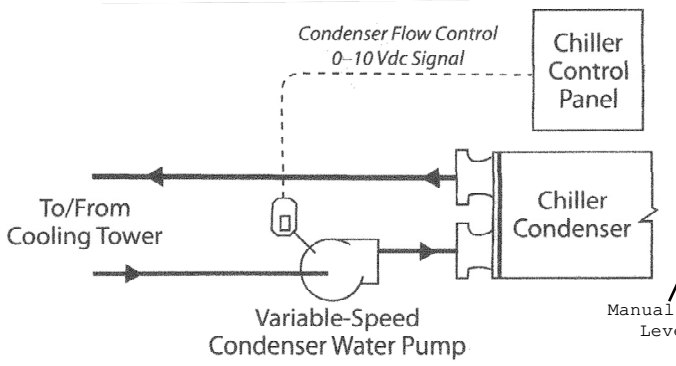
Disadvantages:
3-Way is more expensive than 2-Way.



NOT RECOMMENDED !!!

3-Way Valve Arrangement with NonDedicated CNW Pump With Valve located on the CNW Leaving side of Chiller

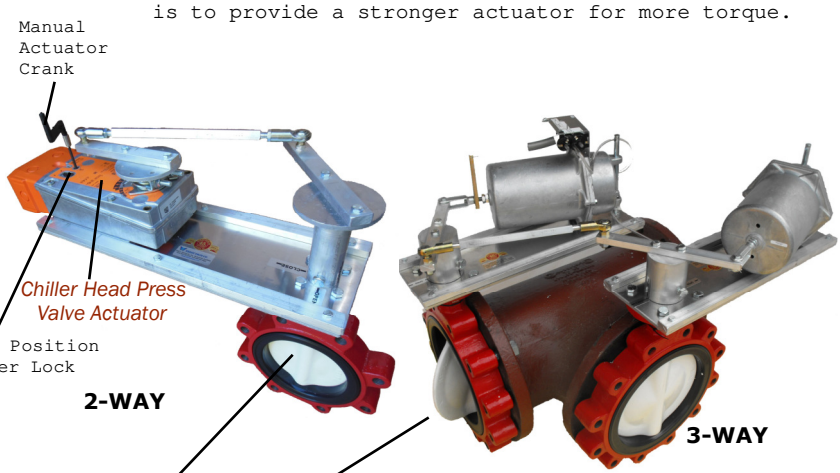
Disadvantages:
Installing the 3-Way Valve on the CNW Leaving side will cause Unequal Valve Port Pressures and may render Valve inoperable.
If this arrangement is required, the only solution is to provide a stronger actuator for more torque.



Variable Speed Drive Pump Arrangement

Advantages:
Good Control.
Pumping Utility Cost can be reduced.

Disadvantages:
Cooling Tower water flow may fall below the minimum limit.
Pump, Motor, and Drive combination must be suitable.



CONDENSOR WATER VALVES

The Valve Assemblies shown provide more modulating resolution than 1/4 Turn Actuator assemblies—Electric or Pneumatic. The actuator stroke time must be 1 minute or less, but then modulating resolution is required to overcome the Butterfly Valve Control capabilities and it's oversize.

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