

VICTAULIC

Hydronic Balancing



- ▶ Eliminate fluctuations in temperature.
- ▶ Eliminate occupant complaints and costly remedies.
- ▶ Optimize energy efficiency.



www.victaulic.com/balancing


Piping. Systems. Solutions.

VICTAULIC

Hydronic Balancing

Enhance comfort and cut energy costs through precise control of building temperature.

Hydronic balancing is the means and method to control hydronic systems thus providing a comfortable indoor climate, minimizing energy costs and preventing problems during operations.

Victaulic provides a complete line of balancing products that allow contractors and engineers to accurately control building temperatures all while optimizing energy efficiency.



A BALANCED SYSTEM:

- ▶ **OPTIMIZES EFFICIENCY** by supplying sufficient heating or cooling to all parts of the building.
- ▶ **MAINTAINS COMFORTABLE, STABLE TEMPERATURES** throughout a building.
- ▶ **REDUCES ENERGY COSTS** by operating pumps at lowest possible loads which saves energy, reduces the need for maintenance and extends equipment life.



BALANCING VALVES

Tour and Andersson valves, offered by Victaulic, are designed with four distinct functions.

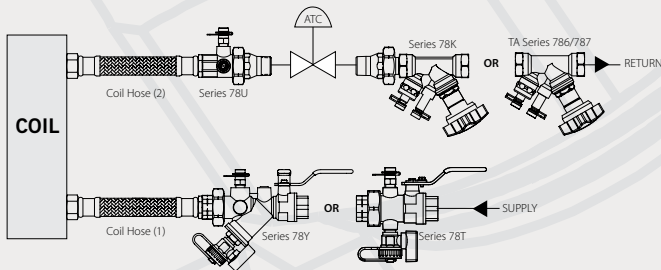
- precise flow measurement
- precision flow balancing
- isolation/positive shut-off valve
- drain/fill/vent connection
(option on 1/2"-2" TA Series 786/787)



KOIL-KIT™ COIL PACK

Victaulic KOIL-KIT Coil Packs provide a simplified, quality coil circuit installation while ensuring optimal hydronic system design requirements are met.

The Victaulic KOIL-KIT Coil Pack is a customizable coil solution to meet the needs of the end user that can be provided on the jobsite as a pre-connected unit for faster and easier installation.



TA INSTRUMENTS AND ACCESSORIES

ENHANCE MEASURING ACCURACY AND SPEED.

Convert pressure differential to flow measurement, and link heating and cooling systems with a building's automation system.

MAKE VALVE SELECTION EASY. Take desired flow, pressure drop and flow rate into consideration during valve selection.

SIMPLIFY TOTAL SYSTEM

BALANCING. Allows direct reading of flow and differential pressures because meters are programmed with valve characteristics.



DIFFERENTIAL PRESSURE CONTROLLERS (DPC)

REDUCE ENERGY COSTS.

Stabilized differential pressures across control valves eliminate dramatic fluctuations in temperature. Because it is easier to control pressure than temperature, the result is enhanced accuracy and improved energy efficiency.

ELIMINATE OCCUPANT COMPLAINTS DUE TO NOISE.

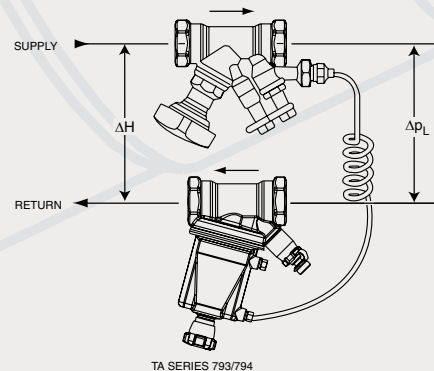
DPCs effectively minimize noise from temperature control valves because they:

- ensure the automatic control valve does not experience excessive pressure drop across the seat of the valve
- are located directly off the riser mains to stabilize the pressure, thus further reducing the potential for noise

REDUCE TIME TO BALANCE AND COMMISSION.

DPCs simplify balancing and commissioning because circuits are independent of each other.

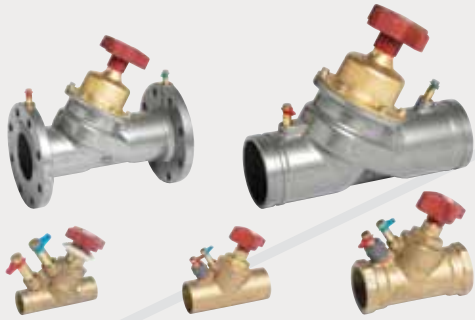
- each balancing module is pressure independent from the rest of the system
- one dynamic control loop will not cause oscillations in other nearby control loops
- each branch is balanced independently and in any order



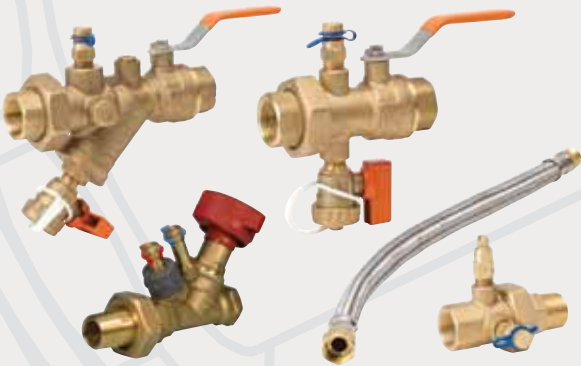
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Products and Applications

HYDRONIC BALANCING VALVES



KOIL-KIT™ COIL PACK



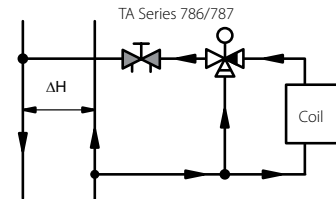
DIFFERENTIAL PRESSURE CONTROLLERS



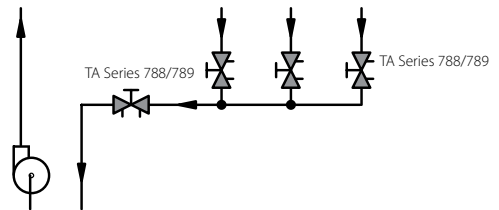
COMPUTER INSTRUMENTS AND ACCESSORIES



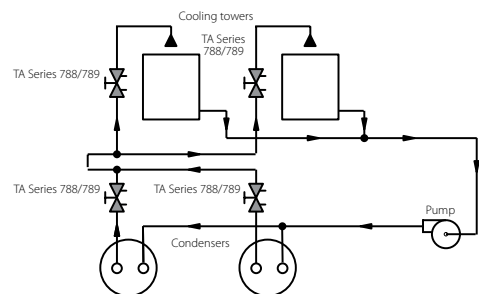
Coil - CW or HW



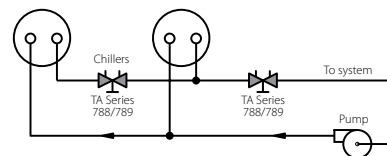
Pump and Branches



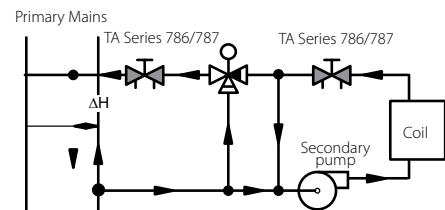
Cooling Tower



Chiller Connections



Primary - Secondary Connections



OPTIMIZE ENERGY EFFICIENCY.

Victaulic hydronic balancing products optimize efficiency by providing precisely designed flow to coils or air handling units in hydronic heating and cooling comfort systems.

COMPRESS PROJECT SCHEDULES.

Valves can be balanced in stages as construction proceeds which means buildings are turned over to owners earlier.

OPTIMIZE CREW SIZE AND BETTER MANAGE LABOR COSTS.

Tour and Andersson valves, offered by Victaulic, have digital hand wheels that are easy to set, resulting in reduced labor hours for system balancing. Utilizing Tour and Andersson's balancing software, TA Select 3 and the CBI-II Balancing Instrument, can make balancing the most complex systems a one-man operation.



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