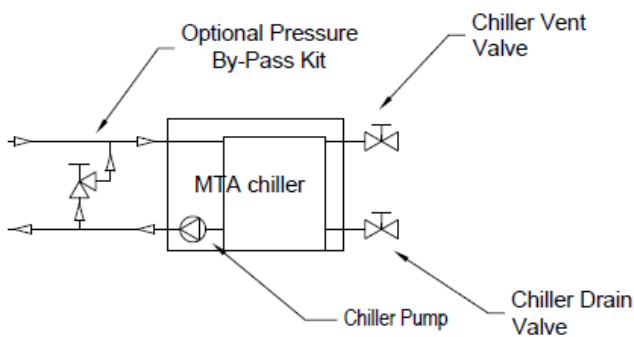




TAEvoTECH PRESSURE BY-PASS OPTION

If the flow of coolant in the chiller loop will be interrupted (by automatic temperature control valves or by manual valves) without stopping the chiller, then a by-pass valve will be required to maintain minimum flow through the chiller and avoid low flow and/or low refrigerant pressure situations. The pressure by-pass option includes an automatic pressure relief valve and fittings to allow easy field installation between the chiller inlet and outlet connections. This kit is field-installed.



INSTALLATION

Using pipe dope or Teflon tape, screw the male end of the by-pass tee with the by-pass valve attached into the chiller inlet connection, and the other by-pass tee into the chiller outlet connection. Be sure to align the fittings so that the tees point toward each other. Install the hose between the hose barbs located on the outlet tee and the by-pass valve inlet (bottom) connection using the hose clamps.

ADJUSTMENT

The valve should be adjusted to open at a pressure just above the normal coolant loop operating pressure with all valves open. As system valves close, the pump pressure will increase and the valve will allow coolant to by-pass to maintain flow through the chiller. When system valves re-open the by-pass valve will close and restore flow to the process loop.

To adjust the valve pressure setting loosen the nut on the threaded stem and turn the T-handle in (CW) to increase the opening pressure or out (CCW) to reduce the pressure. With the pump running and all system valves open decrease the opening pressure (CCW) until the valve begins to open, then increase the opening pressure (CW) just until the valve closes. Re-tighten the nut to secure the stem position. Some further adjustment of the valve may be required if changes to the process flow are made.