

Fan Coils

Valve packages general data: V-3E

Zehnder Rittling Console and High Capacity Fan Coils have standard valve packages available as a factory built assembly and field-installed option for the main cooling coil and optional heating coil. Vertical Hi-Stack Fan Coils are the exception where all valve packages are factory installed. All valve packages are manufactured within strict tolerances and are hydrostatically tested for leaks. All cooling piping and components are located directly above the drain pan to allow condensate to be captured and properly drained. Insulation of the factory valve package is not required. However, all field connections downstream of the valve package should be insulated.

Valve package components

Zehnder Rittling valve packages consist of a variety of components and selection of each combination is dependent upon the application. The following sections provide a detailed description of each of the components. Following this section are additional schematic illustrations and mechanical specifications and photos.

3-way on/off valve

These 1/2" valves are normally closed to the coil as standard and will isolate the coil during a loss of power. Upon response to a signal from the controller, the valve will be either fully open allowing full flow to the coil or fully closed to the coil diverting full flow to the bypass line. All 3-way valve configurations include a balance fitting in the bypass line to allow proper flow balancing. These valves are located in the water supply pipe, have a C_v of 4.0, and close off DP of 20 PSI.

Part	Material
Body	Forged brass
Stem	Nickel plated/chrome plated brass
Seat	Brass
Paddle/plug	Buna N
Actuator	Stainless steel base plate, aluminum cover
Temperature	200 °F maximum
Working pressure	300 PSI

