

Fan Coils

Valve packages general data: V-B1

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.

Interconnecting piping

Interconnecting piping refers to the copper piping which is attached to the coil connections and to which all other components (i.e. control valves, end valves, circuit setters, etc.) are attached. Piping is 1/2" nominal (5/8" OD) copper.

Basic valve package

The basic valve package includes only the main components of the valve package (i.e. interconnecting piping, control valves, and end valves).

All valve package components are solder end connections.

Each basic valve package includes a ball valve for the supply water pipe and one of the following end valves on the return water pipe; ball valve, manual circuit setter, or automatic circuit setter. These valves serve as the field connection points on all of the Zehnder Rittling valve packages. Consult the factory for inclusion of the other types of valves as end valves.

Ball valves

Ball valves, also known as end valves, allow the unit to be cut off for servicing purposes. They have a low resistance to water flow, operate easily, and are often used for water balancing. These valves have a compact handle that rotates 90 degrees to a fully open position. The valve body is forged brass and the ball is polished brass with virgin Teflon seats and seals. Ball valves are available as end valves on both the supply and return water pipes.

Part	Material
Body	Forged brass
Ball	Brass, chrome plated
Seat	PTFE
Stem	Brass
Seals	Viton

Temperature	325 °F maximum
Working pressure	600 PSI

