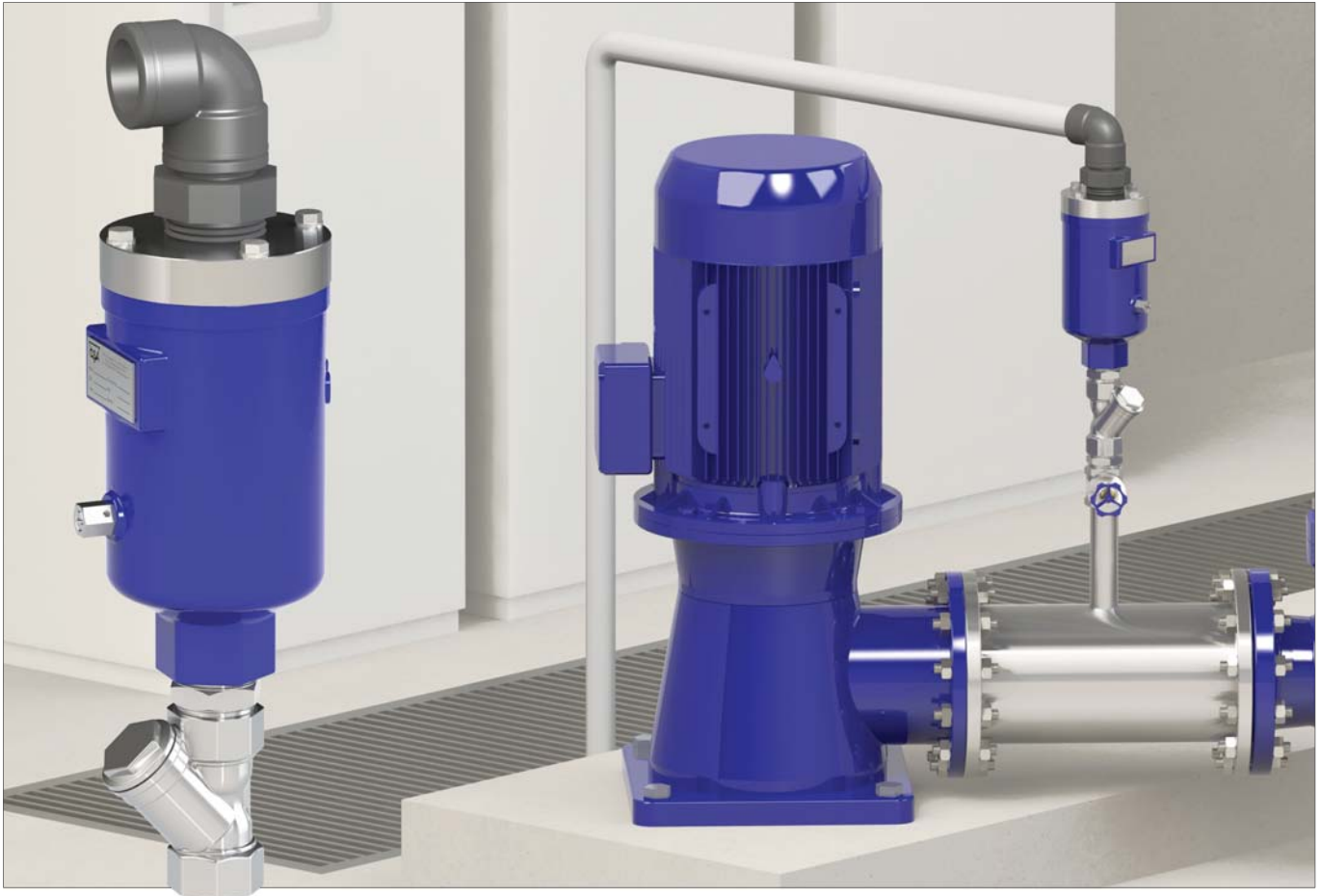


Case study - Water air valves



Air valve FOX AS HR for high rise building and pumping stations

The air valve for surge prevention specifically designed for high rise buildings and pumping stations FOX AS HR will perform as a multifunction kinetic air valve allowing:

- The entrance of large volumes of air in case of pipe draining and pump sudden stop due to power failure.
- The release of air pockets accumulating during working conditions like on the high points of the systems, of buildings risers. This is vital to prevent the reduction of flow rate and the increase of head loss and unwanted power consumption.
- Finally, the most important function of the FOX AS HR is to control air discharge reducing the velocity of the approaching water column thus controlling transient effects. This is needed to dampen pressure surges during pump start up and during filling of risers and piping of high rise buildings, plants and hydraulic systems in general.

During the start up sometimes the presence of debris and dirt is unavoidable, the FOX AS HR is equipped with a filter to prevent possible malfunctioning caused by clogging ensuring an adequate protection also during working conditions.

The exhaust system composed of water tight seat will guarantee the possibility of conveying gas, spurts generated during closing away from the valve installation where wires, control panels or the top floor insulation panels are located.

We remind that an isolation valve is recommended to allow maintenance and the valve's inspection.