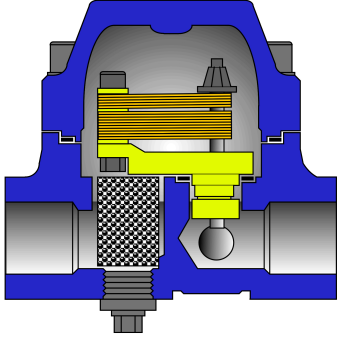
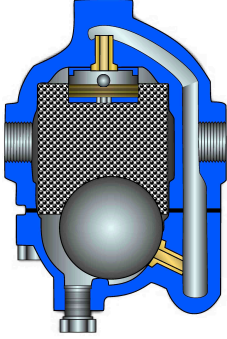


COMPARISON SHEET
VELAN STEAM TRAP VS. BALL FLOAT DESIGN

 <p style="text-align: center;">Velan Steam Trap</p>	 <p style="text-align: center;">Ball Float Steam Trap</p>
<p style="text-align: center;">RAPID AIR VENTING</p> <p>At startup, the Velan steam trap is fully open, venting air quickly and efficiently. This results in a faster startup with fewer plant personnel required to supervise venting of main lines during warmup.</p>	<p style="text-align: center;">POOR AIR VENTING</p> <p>Air is vented through the steam trap through a secondary orifice, typically controlled by a thermostatic bellows. The bellows is inherently weak and can fail in both the open and closed position.</p>
<p style="text-align: center;">STELLITE 6 TRIM STANDARD</p> <p>All Velan steam traps are fitted with Stellite 6® seat facings to resist wear by high velocity flow, dirt and scale. Stellite 6® has 3 times the wear resistance of induction hardened stainless steel.</p>	<p style="text-align: center;">ALLOY TRIM NOT AVAILABLE</p> <p>Ball float steam traps are not available with cobalt based alloy trim.</p>
<p style="text-align: center;">UNAFFECTED BY WATER HAMMER</p> <p>The valve of the Velan steam trap is held closed by the pull of the bimetal plates. When water hammer occurs, the force of the bimetals is overcome by the pressure, and it is released into the downstream piping without damaging the trap or the equipment.</p>	<p style="text-align: center;">FAILS DUE TO WATER HAMMER</p> <p>The float ball on the upstream side of the orifice prevents release of overpressure. Both the float ball and the thermostatic bellows can be crushed due to water hammer.</p>
<p style="text-align: center;">INTEGRAL STRAINER</p> <p>All Velan steam traps are fitted with integral stainless steel screens to protect the trap operating mechanism from damage by dirt and scale. These strainers can be cleaned by way of a blow down port on the outside of the trap body.</p>	<p style="text-align: center;">STRAINER CANNOT BE BLOWN DOWN</p> <p>The internal strainer on most ball float traps cannot be effectively blown down for cleaning.</p>
<p style="text-align: center;">INTEGRAL CHECK VALVE</p> <p>The discharge valve in the trap acts as a check valve providing full back flow control.</p>	<p style="text-align: center;">CHECK VALVE NOT AVAILABLE</p> <p>Check valves are not available on most ball float steam traps.</p>
<p style="text-align: center;">NO PLUGGING</p> <p>The valve on the Velan steam trap is in the downstream position. All flashing of condensate occurs after it has passed through the orifice. Copper and Iron oxides will not foul or plug the orifice in the Velan steam trap.</p>	<p style="text-align: center;">PLUGS DUE TO DIRT AND COPPER OXIDES</p> <p>Due to the upstream valve position, condensate flashes inside of the orifice. Copper and Iron oxides chemically bond to the inside of the orifice, eventually closing the flow path. This leads to plugging, water-logging, and freezing.</p>
<p style="text-align: center;">ASME CLASS RATING</p> <p>Velan steam traps are designed and tested in compliance with the ASME Class Rating system.</p>	<p style="text-align: center;">NON-ASME RATED BODIES</p> <p>Most ball float traps are not constructed in accordance with the ASME Class Rating system.</p>