



A member of the Swing-Flex® Family

Val-Matic is so confident in the SURGEBUSTER'S non-slam performance that we guarantee* the valve will outperform any air cushion swing check valve with weight and lever.

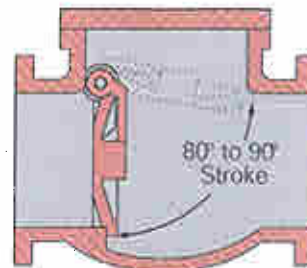
***Warranty details available upon request.**

Val-Matic Guarantee (See Last Paragraph)



Surge Buster Check Valve

Figure 1



Swing Check Valve

Figure 2

The Disc Accelerator™ is a precision formed stainless steel mechanism that closes the valve disc rapidly thus avoiding slamming by flow reversal and yet allowing the disc to be stabilized under flow conditions. The accelerator is fully enclosed within the swing check valve and completely out of the flow path (Figures 1 & 2).

Traditional swing check valves use outside levers with weights or springs in an attempt to reduce slam. By doing so, they pull the disc down into the flow and reduce the length of the disc stroke so that it closes faster.

Unfortunately, while outside levers and weights help solve one problem, they create two others. Increased head loss and maintenance are inevitable with traditional swing check valves. Pulling the disc down into the flow creates a blockage in the line and causes tremendous head loss and turbulence. With the disc oscillating in the flow, the shaft, bearings, and shaft seal are all subjected to severe wear and reduced service life.

In many applications, even this approach has proven ineffective and led to the inclusion of an air cushion cylinder. The air cushion is attached to the weight or spring powered lever that is pulling the disc down. The traditional air cushion on the other hand is working in reverse by slowing the disc through its full stroke and allowing reverse flow to build. The end result, especially on fast flow reversal systems, is a slamming check valve and water hammer.

The SURGEBUSTER® swing check valve with its short 35-degree stroke and Disc Accelerator™ provide fast closure thereby preventing slam and the resultant surge without obstructing flow or the need for maintenance.

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