

ACCESORIES

Anti-Cavitation & Low Noise Trim

Leeds Valve are world leaders in the manufacture and supply of butterfly valve solutions for niche applications in many diverse industries including oil and gas, LNG, power generation, industrial gas and naval marine, in materials from carbon steel to aluminium bronze, stainless steel and titanium.

Anti-Cavitation and Low Noise Trim

Cavitation is the formation of vapour bubbles of a flowing liquid in a region where the pressure of the liquid falls below its vapour pressure. The creation of a void or the implosion of a bubble can set up a shock wave resulting in damage and increased noise levels.

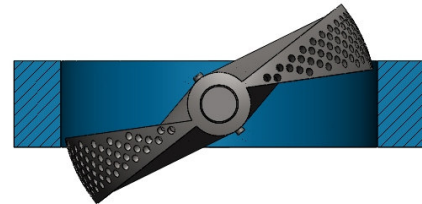
As the pressure drop across the valve increases or the downstream pressure is reduced the sigma coefficient or cavitation index reduces indicating the presence of insipient cavitation and eventually full cavitation.

The Leeds Valve “ANTI-CAV” trim helps to break up the pressure drop into stages and by improving the C_f and K_i values achieves significant noise attenuation.



Anti-Cavitation for Concentric Disc

The “ANTI-CAV” trim extends the rangeability of conventional butterfly control valves by ensuring stable and progressively smooth operation in the nearly closed disc position. Accurate and repeatable inherent flow characteristics can be obtained



Anti-Cavitation for Offset Disc

The “ANTI-CAV” trim is equally effective when fitted to the offset disc used in the high performance valve. Control duties through the full 90° operation can be utilized.

The standard is based on modified equal percentage characteristic; others can be produced to match most control systems.

