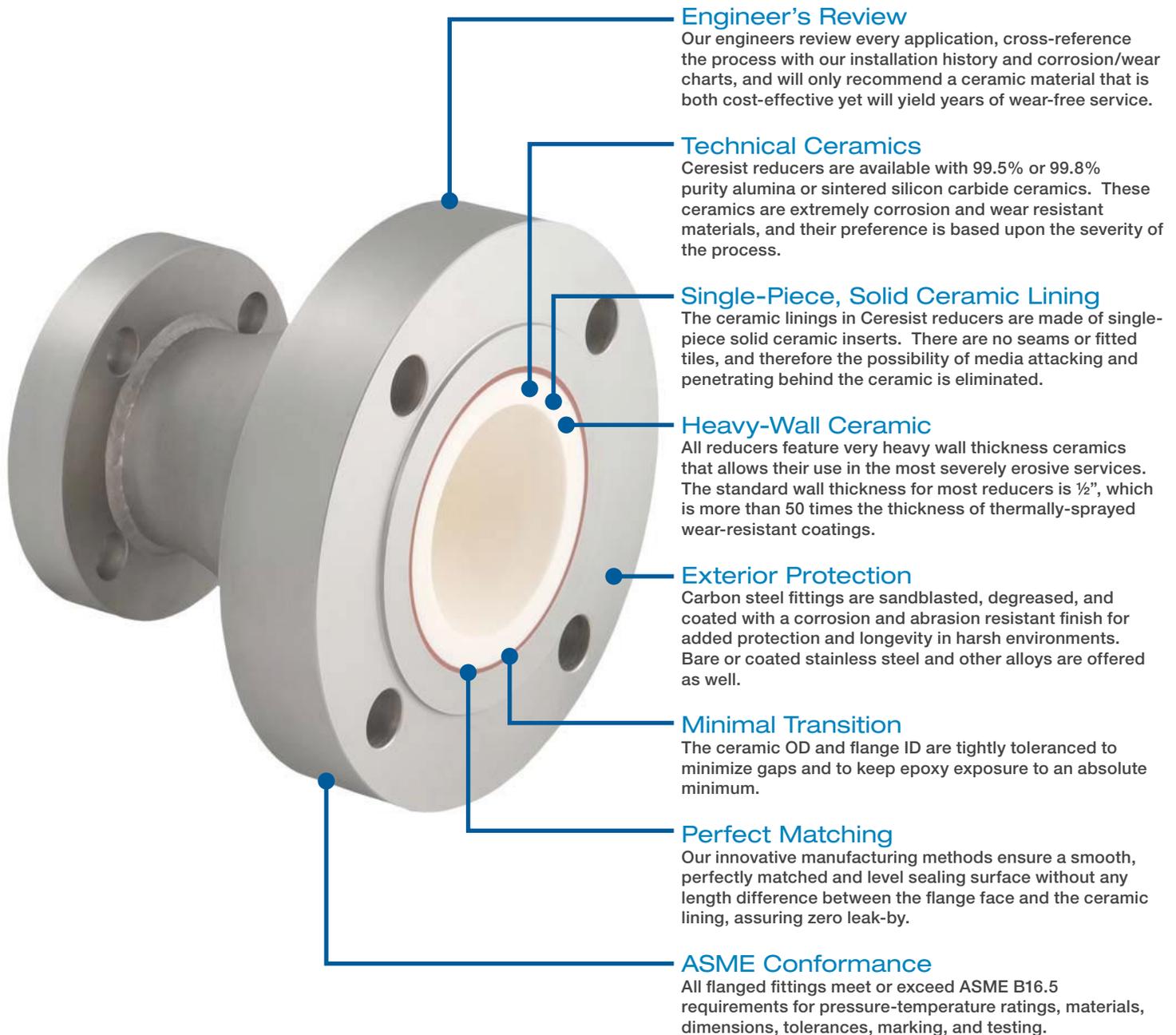


Ceramic-Lined Reducers

Ceresist concentric and eccentric reducers are extremely cost-effective wear-preventative items. Heavy wall thickness ceramics are installed to maximize service life, and are able to survive in the most aggressive and erosive services.



Applications

Uses for Ceramic-Lined Reducers

Before and After Pumps

Ceramic reducers will transition gracefully between the piping and pump, and offer very long service life when transporting slurries or abrasive fluids. Their use has also been very successful in services where cavitation is present.

Before and After Valves

It is sometimes more economical to install a down-sized valve in a particular piping system with the added benefit of improving flow control. Ceramic reducers offer protection from abrasive slurries both on the upstream side (ceramic reducers may be custom-machined to match the ID of any valve), as well as downstream (by preventing premature pipe wear).

As Piping Transitions

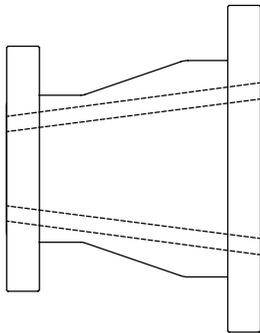
When transitioning between flanges of different class ratings and wear protection is necessary, ceramic reducers are ideal.

Ceramic Materials

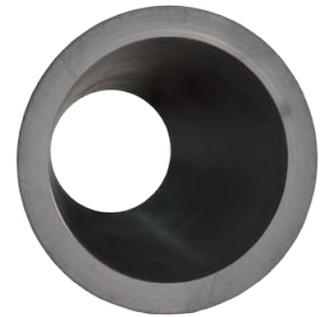
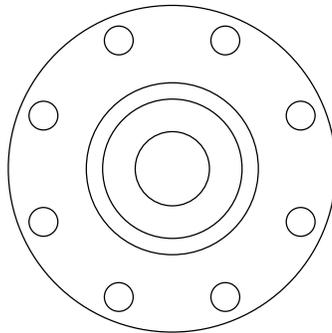
Both sintered silicon carbide as well as high-purity alumina will perform as reducer lining materials. Since the impingement angle is typically shallow, the life of the ceramic inserts has been found to be extremely long. Therefore the selection of alumina or sintered silicon carbide depends upon the erosiveness of the process as well as its corrosiveness.

Housing Materials

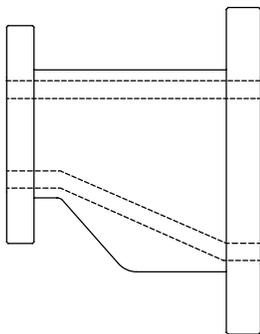
In addition to our standard carbon steel housing, stainless steel 316, 304, and other alloy or plastic housing materials may be supplied. Both mating surfaces are machined to a phonograph finish to ensure positive sealing. For added protection, a corrosion and abrasion-resistant epoxy coating may be applied to carbon steel housings to offer longevity in harsh environments.



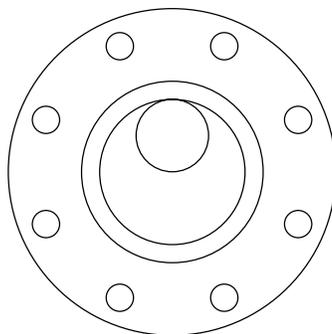
Concentric Reducer



Sintered Silicon Carbide Insert



Eccentric Reducer



Alumina Insert

Ceresist

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