HEAT EXCHANGER
BAFFLE SEALS

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Applications
» The thermal efficiency of shell and tube heat exchangers can be improved by using baffle seals as a means of sealing the clearances between the tube bundle baffle plates and the shell inside diameter.

» Longitudinal baffle seals are used on heat exchangers with two-pass or split process flows within the shell.

» Transverse baffle seals are used to reduce the clearance between the shell and the transverse baffle plates.

Dimensions
» In order to ensure proper installation, it is important to verify all dimensions from the exchanger detail drawings prior to manufacturing.

» Longitudinal baffle seals are cut to size and supplied to suit the exact length of the baffle plate.

» Transport considerations must be taken into account for seals longer than 6m (approx. 19 ft).

» Baffle plate thicknesses between 4mm and 25mm can be accommodated.

» Two lamella sizes are available, 20mm or 30mm, depending on the shell diameter.

Properties
» Longitudinal baffle seals consist of a lamella holder that fits onto the exchanger baffle plate.

» The holder contains lamellae that fold open to conform to the curvature of the shell diameter.

» The lamellae are spot welded to the holder to facilitate installation.

» With certain transverse baffle designs it may be necessary to cut or grind slots into the holder at specified intervals during field installation.

» It is generally not required to attach the seal to the baffle plate with screws or bolts.

Materials
» All baffle seals are manufactured from 1.4571 (SS 316Ti) as standard.

» Other materials are available on request.