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WideGap 100 – Alfa Laval's new, compact heat exchanger for dirty fluids

Alfa Laval's new WideGap100 gasketed plate heat exchanger combines an exceptionally high resistance to fouling and clogging with maximum heat transfer efficiency and compact size. WideGap100 is the smallest plate heat exchanger on the market that has been specially designed for handling media with coarse particles, fibres and solids.

Designed for long uptime

Thick, dirty fluids clog up heat exchangers and cause costly downtime in many industries, for example ethanol, bio-based chemicals, pulp & paper and waste water treatment.

Alfa Laval WideGap heat exchangers offer a solution to this problem. Thanks to the wide distance between its plates and a highly turbulent flow, a WideGap is much less susceptible to clogging than other heat exchangers. The wide channels let dirty fluids pass freely through the heat exchanger, and clogging is avoided. The special herringbone corrugation pattern of the plates causes high turbulence, which further helps reduce fouling but also increases heat transfer.

Small and highly efficient

The new WideGap100 is designed for applications with small flows and has a port diameter of 100 mm. This makes WideGap100 the smallest wide gap type heat exchanger on the market.

Being a plate heat exchanger, WideGap100 has a much higher thermal efficiency than heat exchangers based on other technologies. A WideGap100 has a counter-current flow pattern, allowing it to operate with crossing temperatures, and its high turbulence results in a close temperature approach. This means WideGap100 is very good for all types of heating, cooling and heat recovery duties.

Gaskets designed for uptime and easy maintenance

WideGap 100 uses Alfa Laval's ClipGrip gaskets, offering a quick and totally glue-free mounting thanks to its patented attachments. The ClipGrip gasket design allows secure attachment to the plate, thereby preventing gaskets from creeping out of their grooves as well as avoiding plate pack misalignment and leaks. All this significantly reduces spare parts consumption and time for re-gasketing.

The new WideGap100 complements the larger 200 and 350 models in the same range.

For more information visit: www.alfalaval.com.

More to discover

Please visit Alfa Laval, in Hall 4.0, stand D4 at ACHEMA, Messe Frankfurt, Frankfurt am Main, in Germany June 15-19 2015.

Editor's notes

About Alfa Laval

Alfa Laval is a leading global provider of specialized products and engineering solutions based on its key technologies of heat transfer, separation and fluid handling.

The company's equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes. The solutions help them to heat, cool, separate and transport products in industries that produce food and beverages, chemicals and petrochemicals, pharmaceuticals, starch, sugar and ethanol.

Alfa Laval's products are also used in power plants, aboard ships, oil and gas exploration, in the mechanical engineering industry, in the mining industry and for wastewater treatment, as well as for comfort climate and refrigeration applications.

Alfa Laval's worldwide organization works closely with customers in nearly 100 countries to help them stay ahead in the global arena.

Alfa Laval is listed on Nasdaq OMX, and, in 2013, posted annual sales of about SEK 29.8 billion (approx. 3.5 billion Euros). The company has today, after the acquisition of Frank Mohn AS about 17 500 employees.

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