Alfa Laval Semi-welded T20
Gasketed plate heat exchanger for demanding applications

Introduction
Alfa Laval Industrial semi-welded line is used when gaskets are not suitable for one of the process media. The semi-welded line can also withstand a higher design pressure compared to fully gasketed plate-and-frame heat exchangers.

Suitable for a wide range applications, this model is available with a large selection of plate and gasket types.

Applications
- Chemicals
- Energy and Utilities
- Food and Beverages
- HVAC and Refrigeration
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- Steel
- Water and Waste treatment

Benefits
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval’s global service network

Features
Every detail is carefully designed to ensure optimal performance, maximum uptime and easy maintenance. Selection of available features, depending on configuration some features may not be applicable:

- Five-point alignment
- Reinforced hanger
- Chocolate pattern distribution area
- Glued gasket
- Clip-on gasket
- Leak chamber
- RefTight™ sealing system
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening

Alfa Laval 360° Service Portfolio
Our extensive service offering ensure top performance from your Alfa Laval equipment throughout its life cycle. The Alfa Laval 360 Service Portfolio include installation services, cleaning and repair as well as spare parts, technical documentation and trouble shooting. We also offer replacement, retrofit, monitoring and much more.

For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.
General remarks for technical information

- The global offering presented in this leaflet may not be available for all regions
- All combinations may not be configurable

Dimensional drawing
Measurements mm (inches)

<table>
<thead>
<tr>
<th>Type</th>
<th>H</th>
<th>W</th>
<th>h</th>
</tr>
</thead>
<tbody>
<tr>
<td>T20-FG</td>
<td>2146</td>
<td>780</td>
<td>285</td>
</tr>
<tr>
<td>T20-FS</td>
<td>2183</td>
<td>780</td>
<td>323</td>
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</tbody>
</table>

Technical data

<table>
<thead>
<tr>
<th>Plates</th>
<th>Type</th>
<th>Free channel, mm (inches)</th>
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</thead>
<tbody>
<tr>
<td>T20-BW</td>
<td>Semi-welded</td>
<td>2.5 (0.098)</td>
</tr>
<tr>
<td>T20-MM</td>
<td>Semi-welded</td>
<td>4.0 (0.16)</td>
</tr>
</tbody>
</table>

Materials

Heat transfer plates
- 304/304L, 316/316L, 904L, 254
- C-22, C-276, C-2000, D-205
- Alloy 33, Ni, Ti, TiPd

Field gaskets
- NBR, EPDM, FKM

Ring gaskets
- NBR, EPDM, FKM, FEP, PTFE, CR

Flange connections Carbon steel
- Metal lined: stainless steel, titanium

Frame and pressure plate Carbon steel, epoxy painted

Other materials may be available on request

Operational data

<table>
<thead>
<tr>
<th>Frame, PV-code</th>
<th>Max. design pressure (barg/psig)</th>
<th>Max. design temperature (°C/°F)</th>
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</thead>
<tbody>
<tr>
<td>FG, ASME</td>
<td>10.3/150</td>
<td>177/350</td>
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<tr>
<td>FG, PED</td>
<td>16.0/232</td>
<td>180/356</td>
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<tr>
<td>FS, ASME</td>
<td>27.6/400</td>
<td>160/320</td>
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<tr>
<td>FS, PED</td>
<td>30.0/435</td>
<td>160/320</td>
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</table>

Extended pressure and temperature rating may be available on request.

Flange connections

<table>
<thead>
<tr>
<th>Frame model</th>
<th>Connection standard</th>
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<tbody>
<tr>
<td>FG, ASME</td>
<td>ASME B16.5 Class100 NPS 8</td>
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<tr>
<td></td>
<td>ASME B16.5 Class150 NPS 8</td>
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<tr>
<td>FG, PED</td>
<td>EN 1092-1 DN200 PN10</td>
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<td>EN 1092-1 DN200 PN16</td>
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<tr>
<td>FS, ASME</td>
<td>ASME B16.5 Class 300 NPS 8</td>
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<td>ASME B16.5 Class 400 NPS 8</td>
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<td>FS, PED</td>
<td>EN 1092-1 DN200 PN25</td>
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<td>EN 1092-1 DN200 PN40</td>
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Standard EN1092-1 corresponds to GOST 12815-80 and GB/T 9115.