Alfa Laval M10 W

Gasketed plate-and-frame heat exchanger for demanding applications

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:
- Corner guided alignment system
- Chocolate pattern distribution area
- Clip-on gasket
- Leak chamber
- ReTight™ sealing system
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover
- Optimized Alfa Laval drain connection

Extending performance with Alfa Laval 360° Service Portfolio
Our extensive services ensure top performance from your Alfa Laval equipment throughout its life cycle. The availability of parts and our team’s commitment and expertise bring you peace of mind.

Start-up
- Installation
- Installation Supervision
- Commissioning

Maintenance
- Cleaning Services
- Reconditioning
- Repair
- Service Tools
- Spare Parts

Support
- Exclusive Stock
- Technical Documentation
- Telephone Support
- Training
- Troubleshooting

Improvements
- Equipment Upgrades
- Redesign
- Replacement and Retrofit

Monitoring
- Condition Audit
- Performance Audit
The number of tightening bolts may vary depending on pressure rating.

Technical data

Plates

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Free channel, mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M10-BW</td>
<td>Semi-welded</td>
<td>2.4 (0.094)</td>
</tr>
</tbody>
</table>

Materials

- Field gaskets: NBR, EPDM, FKM, CR
- Ring gaskets: NBR, EPDM, FKM, FEP, PTFE, CR
- Flange connections: Metal lined: stainless steel, Alloy 254, G-276, Titanium
- Frame and pressure plate: Carbon steel, epoxy painted

Other materials may be available on request.

All option combinations may not be configurable.

Operational data

<table>
<thead>
<tr>
<th>Frame, PV-code</th>
<th>Max. design pressure (barg/psig)</th>
<th>Max. design temperature (°C/°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG, ASME</td>
<td>10.3/150</td>
<td>250/482</td>
</tr>
<tr>
<td>FG, PED</td>
<td>16.0/232</td>
<td>180/356</td>
</tr>
<tr>
<td>FD, pvcALS</td>
<td>25.0/363</td>
<td>180/356</td>
</tr>
<tr>
<td>FD, ASME</td>
<td>20.7/300</td>
<td>250/482</td>
</tr>
<tr>
<td>FD, PED</td>
<td>25.0/362</td>
<td>180/356</td>
</tr>
<tr>
<td>FDR, PED</td>
<td>25.0/362</td>
<td>160/320</td>
</tr>
<tr>
<td>FT, PED</td>
<td>40.0/580</td>
<td>180/356</td>
</tr>
<tr>
<td>FT, ASME</td>
<td>41.4/600</td>
<td>250/482</td>
</tr>
<tr>
<td>FX, PED</td>
<td>55.0/798</td>
<td>150/302</td>
</tr>
<tr>
<td>REF, PED</td>
<td>25.0/362</td>
<td>150/302</td>
</tr>
</tbody>
</table>

Extended pressure and temperature rating may be available on request.

Flange connections

- FG, pvcALS: EN 1092-1 DN100 PN16, ASME B16.5 Class 150 NPS 4, JIS B2220 16K 100A
- FG, ASME: ASME B16.5 Class 150 NPS 4
- FG, PED: EN 1092-1 DN100 PN16, ASME B16.5 Class 150 NPS 2
- FD, pvcALS: EN 1092-1 DN100 PN25, ASME B16.5 Class 300 NPS 4, JIS B2220 20K 200A
- FD, ASME: ASME B16.5 Class 300 NPS 4
- FD, PED: EN 1092-1 DN100 PN40, ASME B16.5 Class 300 NPS 4
- FT, PED: EN 1092-1 DN100 PN63, ASME B16.5 Class 300 NPS 4
- FT, ASME: RLF
- FX, PED: EN 1092-1 DN100 PN16, EN 1092-1 DN100 PN25, EN 1092-1 DN100 PN63
- REF, PED: EN 1092-1 DN100 PN25

Standard EN1092-1 corresponds to GOST 12815-80 and GB/T 9115.

RLF (Rectangular Loose Flange) in pressure plate: FG, FD, FT PED, FX PED