Alfa Laval M6
Gasketed plate-and-frame heat exchanger for a wide range of applications

Alfa Laval Industrial line is a wide product range that is used in virtually all types of industry.

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

In addition to normal single plate configuration, this model is also available with double wall plates. Double wall plates are used as an extra precaution to avoid intermixing of fluids.

Applications
- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food and Beverages
- Home and Personal care
- HVAC and Refrigeration
- Machinery and Manufacturing
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- Semiconductor and Electronics
- 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
- Glued gasket
- Clip-on gasket
- Leak chamber
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

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>M6</td>
<td>Single plate</td>
<td>2.0 (0.079)</td>
</tr>
<tr>
<td>M6-M</td>
<td>Single plate</td>
<td>3.0 (0.12)</td>
</tr>
<tr>
<td>M6-MX</td>
<td>Single plate</td>
<td>3.0 (0.12)</td>
</tr>
<tr>
<td>M6-MD</td>
<td>Double wall plate</td>
<td>3.0 (0.12)</td>
</tr>
<tr>
<td>M6-MG</td>
<td>Gemini (hygienic)</td>
<td>3.0 (0.12)</td>
</tr>
</tbody>
</table>

#### Materials

- **Field gaskets**: NBR, EPDM, FKM, CR
- **Flange connections**: Carbon steel, Metal lined: stainless steel, Alloy 254, Alloy C-276, titanium, Rubber lined: NBR, EPDM
- **Pipe connections**: Stainless steel, titanium, Alloy 254, Alloy C-276, Rubber lined: NBR, EPDM
- **Frame and pressure plate**: Carbon steel, epoxy painted

### Operational data

#### Frame, Max. design pressure (barg/psig), Max. design temperature (°C/°F)

<table>
<thead>
<tr>
<th>PV-code</th>
<th>Max. design pressure</th>
<th>Max. design temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM, pvcALS</td>
<td>10.0/145</td>
<td>180/356</td>
</tr>
<tr>
<td>FG, pvcALS</td>
<td>16.0/232</td>
<td>180/356</td>
</tr>
<tr>
<td>FG, ASME</td>
<td>11.2/162</td>
<td>210/410</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>20.7/351</td>
<td>250/482</td>
</tr>
<tr>
<td>FD, PED</td>
<td>25.0/362</td>
<td>180/356</td>
</tr>
</tbody>
</table>

Extended pressure and temperature rating may be available on request.

### Pipe connections

- **Threaded port**: ISO 228 - G 2
- **External parallel threaded**: ISO 228 - G 2 B
- **External tapered threaded**: 1 1/4 - 11.5 NPT 2 - 11.5 NPT
- **Straight welded**: NPS 2 (50 mm)
- **Radial grooved pipe**: NPS 2

Other connection types may be available on request.

### Flange connections

- **FM, pvcALS**: EN 1092-1 DN50 PN10 ASME B16.5 Class 150 NPS 2 JIS B2220 10K 50A
- **FG, pvcALS**: EN 1092-1 DN50/DN65 PN16 ASME B16.5 Class 150 NPS 2 JIS B2220 16K 50A
- **FG, ASME**: ASME B16.5 Class150 NPS 2
- **FG, PED**: EN 1092-1 DN50 PN16 ASME B16.5 Class 150 NPS 2
- **FD, pvcALS**: EN 1092-1 DN50 PN25 JIS B2220 20K 50A
- **FD, ASME**: ASME B16.5 Class 300 NPS 2
- **FD, PED**: EN 1092-1 DN50 PN25 ASME B16.5 Class 300 NPS 2

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

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**How to contact Alfa Laval**

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.

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Alfa Laval reserves the right to change specifications without prior notification.