Alfa Laval MA30-S

Gasketed plate-and-frame heat exchanger for fibrous fluids

Alfa Laval WideGap is used for fibrous liquids, for highly viscous fluids and for fluids containing coarse particles. The wide gaps between the plates, the plate pattern and the smooth port design allow fluids with fibres and particles to easily flow through the heat exchanger.

The available channel gap sizes for this model are:

- wide/narrow 11/5 mm (0.43/0.20 inches)
- wide/wide 11/11 mm (0.43/0.43 inches)

Applications
- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Mining, Minerals and Pigments
- Pulp and Paper
- Water and Waste treatment

Benefits
- Maximum uptime for fouling applications
- 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:

- 5-point alignment system
- Reinforced hanger
- Chocolate pattern distribution area
- Glued gasket
- Leak chamber
- Bearing box
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Pressure plate roller
- 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
### Dimensional drawing

Measurements mm (inches)

<table>
<thead>
<tr>
<th>Type</th>
<th>W</th>
<th>H</th>
<th>h</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA30-FM</td>
<td>2882 (113.5&quot;)</td>
<td>1170 (46.1&quot;)</td>
<td>485 (19.1&quot;)</td>
</tr>
<tr>
<td>MA30-FG</td>
<td>2918 (114.9&quot;)</td>
<td>1170 (46.1&quot;)</td>
<td>521 (20.5&quot;)</td>
</tr>
</tbody>
</table>

### Technical data

#### Plates

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Free channel, mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA30-S</td>
<td>Wide-gap</td>
<td>11 / 11 (0.43/0.43) wide/narrow</td>
</tr>
<tr>
<td>MA30-SM</td>
<td>Wide-gap</td>
<td>11 / 5 (0.43/0.20) wide/wide</td>
</tr>
</tbody>
</table>

#### Materials

- Heat transfer plates: 316/316L, Ti
- Field gaskets: NBR, EPDM
- Flange connections: Carbon steel, Metal lined: stainless steel, titanium
- Frame and pressure plate: Carbon steel, epoxy painted

### 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>FM, ASME</td>
<td>6.9/100</td>
<td>180/356</td>
</tr>
<tr>
<td>FM, PED</td>
<td>10.0/145</td>
<td>160/320 (160/320)</td>
</tr>
<tr>
<td>FG, ASME</td>
<td>10.7/155</td>
<td>250/482</td>
</tr>
<tr>
<td>FG, PED</td>
<td>16.0/232</td>
<td>210/410</td>
</tr>
</tbody>
</table>

Extended pressure and temperature rating may be available on request.

#### Flange connections

- FM, ASME: ASME B16.5 Class 150 NPS 14/NPS 12
- FM, PED: EN 1092-1 DN350/DN300 PN10
- FG, ASME: ASME B16.5 Class 150 NPS 14/NPS 12
- FG, PED: EN 1092-1 DN350/DN300 PN16

ASME B16.5 Class 150 NPS 14/NPS 12

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

### How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.

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