

# Alfa Laval T20

## Gasketed plate heat exchanger for a wide range of applications

### Introduction

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.

### 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, depending on configuration some features may not be applicable:



- Five-point alignment
- Reinforced hanger
- Chocolate pattern distribution area
- Glued gasket
- Clip-on gasket
- Offset gasket groove
- Leak chamber
- Bearing boxes



- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Pressure plate roller
- Tightening bolt cover

### 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.

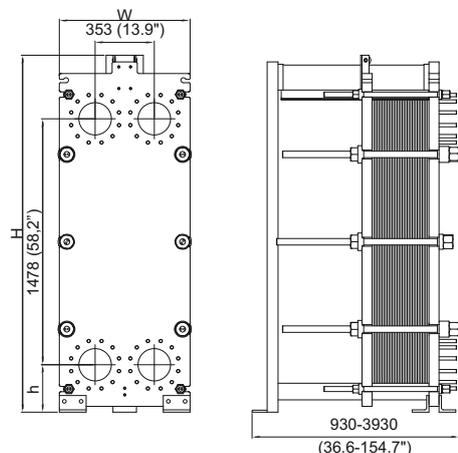
For information about our complete service offering and how to contact us - please visit [www.alfalaval.com/service](http://www.alfalaval.com/service).

## 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)



| Type           | H            | W           | h           |
|----------------|--------------|-------------|-------------|
| T20-FM, pvcALS | 2141 (84.3") | 780 (30.7") | 280 (11.0") |
| T20-FM, PED    | 2146 (84.5") | 755 (27.7") | 285 (11.2") |
| T20-FG         | 2146 (84.5") | 780 (30.7") | 285 (11.2") |
| T20-FS         | 2183 (85.9") | 780 (30.7") | 323 (12.7") |

## Technical data

| Plates | Type         | Free channel, mm (inches) |
|--------|--------------|---------------------------|
| T20-B  | Single plate | 1.9 (0.075)               |
| T20-M  | Single plate | 4.0 (0.16)                |
| T20-P  | Single plate | 2.9 (0.11)                |

## Materials

|                          |   |
|--------------------------|---|
| Heat transfer plates     | 304/304L, 316/316L, 254, Alloy 33<br>C-276, C-2000<br>Ni, Ti        |
| Field gaskets            | NBR, EPDM, FKM, HeatSeal<br>Carbon steel                            |
| Flange connections       | Metal lined: stainless steel, Alloy C-276, titanium<br>Rubber lined |
| Frame and pressure plate | Carbon steel, epoxy painted   |

Other materials may be available on request

## Operational data

| Frame, PV-code | Max. design pressure (barg/psig) | Max. design temperature (°C/°F) |
|----------------|----------------------------------|---------------------------------|
| FM, pvcALS     | 10.0/145                         | 180/356                         |
| FM, PED        | 10.0/145                         | 120/248                         |
| FG, pvcALS     | 16.0/232                         | 180/356                         |
| FG, ASME       | 10.3/150                         | 249/480                         |
| FG, PED        | 16.0/232                         | 180/356                         |

| Frame, PV-code | Max. design pressure (barg/psig) | Max. design temperature (°C/°F) |
|----------------|----------------------------------|---------------------------------|
| FD, ASME       | 20.7/300                         | 249/480                         |
| FS, pvcALS     | 29.5/427                         | 200/392                         |
| FS, ASME       | 27.6/400                         | 249/480                         |
| FS, PED        | 30.0/435                         | 160/320                         |

Extended pressure and temperature rating may be available on request.

## Flange connections

| Frame model | Connection standard        |
|-------------|----------------------------|
| FM, pvcALS  | EN 1092-1 DN200 PN10       |
|             | ASME B16.5 Class 150 NPS 8 |
|             | JIS B2220 10K 200A         |
| FM, PED     | EN 1092-1 DN200 PN10       |
|             | ASME B16.5 Class 150 NPS 8 |
| FG, pvcALS  | EN 1092-1 DN200 PN16       |
|             | EN 1092-1 DN200 PN25       |
|             | ASME B16.5 Class 150 NPS 8 |
|             | JIS B2220 10K 200A         |
| FG, ASME    | ASME B16.5 Class 150 NPS 8 |
|             | EN 1092-1 DN200 PN10       |
| FG, PED     | EN 1092-1 DN200 PN16       |
|             | EN 1092-1 DN200 PN25       |
|             | ASME B16.5 Class 150 NPS 8 |
| FD, ASME    | ASME B16.5 Class 150 NPS 8 |
|             | ASME B16.5 Class 300 NPS 8 |
| FDc, ASME   | EN 1092-1 DN200 PN25       |
|             | EN 1092-1 DN200 PN40       |
| FS, pvcALS  | ASME B16.5 Class 300 NPS 8 |
|             | ASME B16.5 Class 400 NPS 8 |
|             | JIS B2220 20K 200A         |
|             | ASME B16.5 Class 300 NPS 8 |
| FS, ASME    | ASME B16.5 Class 400 NPS 8 |
|             | EN 1092-1 DN200 PN25       |
| FS, PED     | EN 1092-1 DN200 PN40       |
|             | ASME B16.5 Class 400 NPS 8 |

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

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## How to contact Alfa Laval

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