

# Alfa Laval T45

## 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.

Designed for high throughput, this model delivers excellent thermal performance. A large selection of plate and gasket types is available.

## **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**

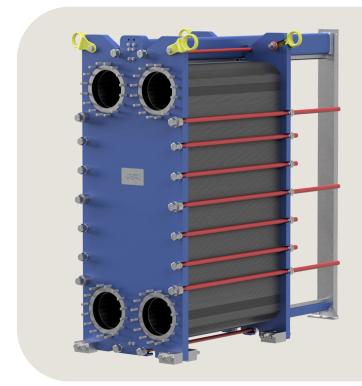
- High energy efficiency low operating cost
- Flexible configuration heat transfer area can be modified
- Easy to install compact design
- High serviceability easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

#### **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
- T-bar roller
- Glued gasket
- Base-ad gasket
- · Offset gasket groove



- Leak chamber
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Swing feet
- 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.

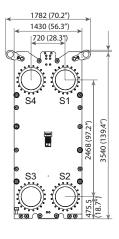
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

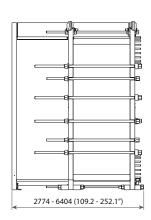
## General remarks for technical information

- 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)





The number of tightening bolts may vary depending on pressure rating.

## Technical data

Plates	Type	Free channel, mm (inches)
М	Single plate	4.0 (0.16)
Materials	<b>;</b>	
Heat transfer plates		304, 316, 254
		Ti
Field gaskets		NBR, EPDM, HNBR
Flange connections		Carbon steel
		Metal lined: stainless steel, Alloy 254, titanium
Frame and pressure plate		Carbon steel, epoxy painted

Other materials may be available on request.

## Operational data

Frame type	Max. design pressure barg (psig)	Max. design temperature °C (°F)
FM, pvcALS	11.0 (159)	200 (392)
FG, pvcALS	18.0 (261)	200 (392)
FG, ASME	10.4 (151)	250 (482)
FG, PED	18.0 (261)	250 (482)
FD, ASME	17.4 (252)	250 (482)

Extended pressure and temperature rating may be available on request.

## Flange connections

Frame type	Connection standard	
	EN 1092-1 DN450 PN10	
	EN 1092-1 DN500 PN10	
EM profile	ASME B16.5 Class 150 NPS 18	
FM, pvcALS	ASME B16.5 Class 150 NPS 20	
	JIS B2220 10K 450A	
	JIS B2220 10K 500A	
	EN 1092-1 DN450 PN16	
FG, pvcALS	ASME B16.5 Class 150 NPS 18	
	JIS B2220 16K 450A	
FG, ASME	ASME B16.5 Class 150 NPS 18	
FG. PED	EN 1092-1 DN450 PN16	
rg, red	ASME B16.5 Class 150 NPS 18	
FD. ASME	ASME B16.5 Class 150 NPS 18	
FD, ASIVIE	ASME B16.5 Class 300 NPS 18	
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Standard EN1092-1 corresponds to GOST 12815-80 and GB/T 9115.

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