

Alfa Laval TS35

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.

The relatively short plate makes this model suitable for duties with short temperature programs and when a low pressure drop is appreciated. A large range of plate and gasket types is available.

Applications

- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food, Dairy 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
- T-bar roller
- CurveFlow™ distribution area
- Glued gasket
- PowerArc™ plate pattern divider



- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Swing feet
- Tightening bolt cover

Alfa Laval service offering

Our vision is to be your trusted partner for service, driving sustainable performance together. The Alfa Laval portfolio of service offers for Plate Heat Exchangers from start-up of your operations, through operation, process improvements, and replacement. Throughout the lifecycle, we bring you more than 140 years of technical experience and innovative service

solutions tailored to your business needs. Easily accessible through our people all over the world.

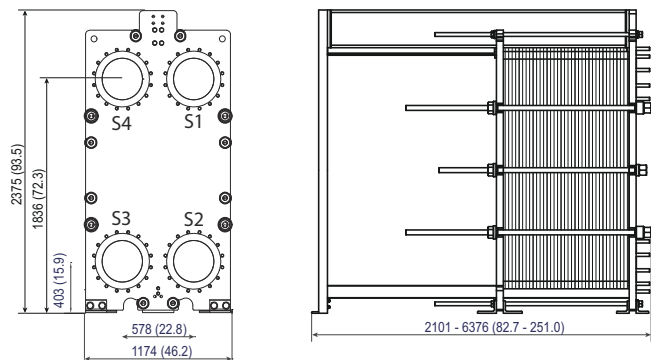
For information about our complete service offering and how to contact us, please visit www.alfalaval.com/service.

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)
P	Single plate	3.4 (0.13)
Materials		
Heat transfer plates		304/304L, 316/316L, 904L, 254
		C276, C2000
		G30
		Ti, TiPd
Field gaskets		Ti, TiPd
		NBR, EPDM, FKM, HeatSeal
Flange connections		Carbon steel
		Metal lined: stainless steel Alloy 316, 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, ALS	10.3 (150)	180 (356)
FM, Marine ¹	15 (218)	150 (302)
FG, pvcALS	16.0 (232)	180 (356)
FG, ASME	10.3 (150)	250 (482)
FG, PED	16.0 (232)	180 (356)
FD, pvcALS	25.0 (362)	180 (356)
FD, ASME	20.7 (300)	250 (482)
FD, PED	25.0 (362)	180 (356)
FS, ASME	27.6 (400)	250 (482)

¹ Marine includes the standards: ABS, BV, CCS, ClassNK, DNV, KR, LR, and RINA.

Extended pressure and temperature rating may be available on request.

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
	JIS B2220 10K 300A
FM, PED	JIS B2220 10K 350A
	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
FM, Marine ¹	ASME B16.5 Class 150 NPS 14
	EN 1092-1 DN200 PN10
	ASME B16.5 Class 150 NPS 6
	JIS B2220 10K 300A
FG, pvcALS	JIS B2220 10K 350A
	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FG, Marine ²	JIS B2220 16K 300A
	JIS B2220 16K 350A
FG, ASME	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FG, PED	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FD, pvcALS	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FD, ASME	JIS B2220 20K 300A
	JIS B2220 20K 350A
FDc, ASME	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FD, PED	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FS, ASME	ASME B16.5 Class 400 NPS 12
	ASME B16.5 Class 400 NPS 14

¹ Marine includes the standards: ABS, BV, CCS, DNV, ClassNK, KR, LR and RINA.

² Marine includes the standards: ABS, BV, CCS, DNV, ClassNK, KR, LR, and RINA.

Standard EN1092-1 corresponds to GOST 12815-80 and GB/T9124.1.

Extended connections are available for ASME B16.5 Class 150, Class 300, Class 400 size NPS 14.

This document and its contents are subject to copyrights and other intellectual property rights owned by Alfa Laval AB (publ) or any of its affiliates (jointly "Alfa Laval"). No part of this document may be copied, re-produced or transmitted in any form or by any means, or for any purpose, without Alfa Laval's prior express written permission. Information and services provided in this document are made as a benefit and service to the user, and no representations or warranties are made about the accuracy or suitability of this information and these services for any purpose. All rights are reserved.

CHE00089-6-EN-GB

© Alfa Laval AB

How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com