

Alfa Laval TL6

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 tall plate makes this model suitable for duties with long temperature programs and when high heat recovery 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:



- Corner guided alignment system
- Chocolate pattern distribution area
- Clip-on gasket
- Offset gasket groove
- Leak chamber
- Compact frame



- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- 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, integrity testing, monitoring and much more.

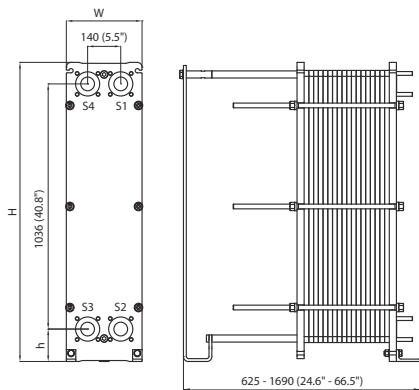
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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)



Frame type	H	W	h
FM	1264 (49.8")	320 (12.6")	137 (5.4")
FG	1264 (49.8")	320 (12.6")	137 (5.4")
FG, ASME	1299 (51.1")	320 (12.6")	142 (5.6")
FD	1264 (49.8")	330 (13.0")	137 (5.4")
FD, ASME	1308 (51.5")	330 (13.0")	142 (5.6")

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

Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	1.8 (0.071)

Materials

Heat transfer plates	304, 316, Ni Ti
Field gaskets	NBR, EPDM, FKM, HeatSeal Carbon steel
Flange connections	Metal lined: stainless steel, titanium Rubber lined: NBR, EPDM
Pipe connections	Stainless steel
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, PED	10.0 (145)	180 (356)
FM, pvcALS	10.0 (145)	180 (356)
FG, pvcALS	16.0 (232)	180 (356)
FG, ASME	10.3 (150)	250 (482)

Frame type	Max. design pressure barg (psig)	Max. design temperature °C (°F)
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)

Extended pressure and temperature rating may be available on request.

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN50 PN16
	EN 1092-1 DN65 PN16
	ASME B16.5 Class 150 NPS 2
	JIS B2220 10K 50A
FM, PED	JIS B2220 10K 65A
	EN 1092-1 DN50 PN16
	EN 1092-1 DN65 PN16
	ASME B16.5 Class 150 NPS 2
FG, pvcALS	EN 1092-1 DN50 PN16
	EN 1092-1 DN65 PN16
	ASME B16.5 Class 150 NPS 2
	JIS B2220 10K 50A
FG, ASME	JIS B2220 10K 65A
	JIS B2220 16K 50A
	JIS B2220 16K 65A
	ASME B16.5 Class 150 NPS 2
FG, PED	EN 1092-1 DN50 PN16
	EN 1092-1 DN65 PN16
	ASME B16.5 Class 150 NPS 2
	EN 1092-1 DN50 PN40
FD, pvcALS	EN 1092-1 DN65 PN40
	ASME B16.5 Class 300 NPS 2
	JIS B2220 20K 50A
	JIS B2220 20K 65A
FD, ASME	ASME B16.5 Class 300 NPS 2 (Rectangular Loose Flange)
	EN 1092-1 DN50 PN40
	EN 1092-1 DN65 PN40
	ASME B16.5 Class 300 NPS 2 (Rectangular Loose Flange)
FD, PED	EN 1092-1 DN50 PN40
	EN 1092-1 DN65 PN40
	ASME B16.5 Class 300 NPS 2
	(Rectangular Loose Flange)

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

Pipe connections

Connection type	Connection standard
Threaded port	ISO 228 - G 2
External parallel threaded	ISO 228 - G 2 B
External tapered threaded	ISO 7 - R 2
Radial grooved pipe	NPS 2
External thread	2 - 11.5 NPT

Other connection types may be available on request.

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