

Alfa Laval T2

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 of applications, this is the smallest model in the industrial range of gasketed plate-and-frame heat exchangers.

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:

- Clip-on gasket
- Leak chamber
- Lining

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

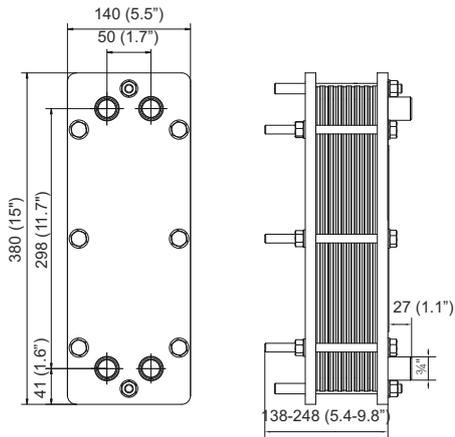


documentation and trouble shooting. We also offer replacement, retrofit, integrity testing, monitoring and much more.

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

Dimensional drawing

Measurements mm (inches)



Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	2.4 (0.095)

Materials

Heat transfer plates	316/316L Ti
Field gaskets	NBR, EPDM
Pipe connections	Stainless steel, 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)
FG, pvcALS	16.0 (232)	180 (356)

Extended pressure and temperature rating may be available on request.

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

Pipe connections

Connection type	Connection standard
External tapered threaded	ISO 7 - R 3/4

Other connection types may be available on request.

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Alfa Laval T5

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 of applications, this model is available with a large selection of plate and gasket types.

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
- Clip-on gasket
- Offset gasket groove
- Leak chamber
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining



- Lock washer
- Tightening bolt cover

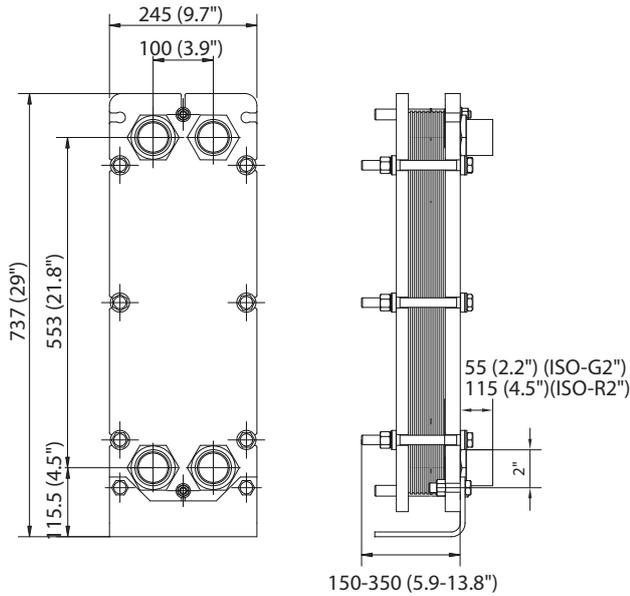
Alfa Laval 360° Service Portfolio

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

Dimensional drawing

Measurements mm (inches)



Flange connections

Frame type	Connection standard
FG, pvcALS	ASME B16.5 Class 150 NPS 1 1/2

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 2 - 11.5 NPT

Other connection types may be available on request.

Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	1.8 (0.07)
M	Single plate	2.9 (0.11)

Materials

Heat transfer plates	304/304L, 316/316L Ti
Field gaskets	NBR, EPDM
Flange connections	Rubber lined: NBR
Pipe connections	Stainless steel, 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)
FG, pvcALS	16.0 (232)	180 (356)
FG, ASME	10.3 (150)	180 (356)
FG, PED	16.0 (232)	160 (320)

Extended pressure and temperature rating may be available on request.

General remarks for technical information

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Alfa Laval T6

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, 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:



- CurveFlow™ distribution area
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- SteerLock™ plate alignment
- FlexFlow™ plate design



- Compact frame
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

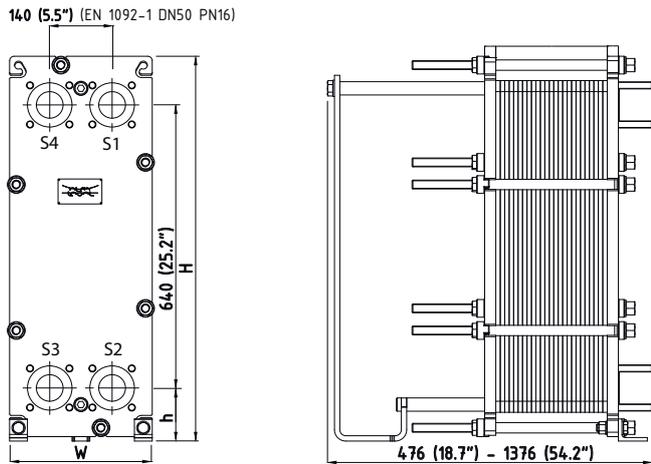
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Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM ALS	890 (35")	320 (12.6")	140 (5.51")
FG ALS, PED, ASME, Marine ¹	890 (35")	320 (12.6")	140 (5.51")
FD ALS, PED, ASME	890 (35")	330 (13")	130 (5.12")

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

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

Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	1.80 (0.07)
P	Single plate	3.00 (0.12)
Mc	Single plate	3.00 (0.12)
MDC	Double wall plate	3.00 (0.12)

Materials

Heat transfer plates	304, 316, 254, C276, C2000, D205, Ni, Ti, TiPd, G30
Field gaskets	NBR, EPDM, FKM, HNBR, HeatSeal
Flange connections	Metal lined: stainless steel, 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	12.0 (174)	200 (392)
FG, pvcALS	18.0 (261)	200 (392)
FG, ASME	11.2 (162)	250 (482)
FG, PED	20.0 (290)	200 (392)

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

Frame type	Max. design pressure barg (psig)	Max. design temperature °C (°F)
FG, Marine ¹	18.0 (261)	180 (356)
FD, pvcALS	31.0 (449.5)	200 (392)
FD, ASME	23.8 (345)	250 (482)
FD, PED	31.0 (449.5)	200 (392)

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

Extended pressure and temperature rating may be available on request.

General remarks for technical information

- The global offering presented in this leaflet may not be available for all regions
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Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN50 PN10
	ASME B16.5 Class 150 NPS 2 JIS B2220 10K 50A
FG, pvcALS	EN 1092-1 DN50 PN16
	ASME B16.5 Class 150 NPS 2 JIS B2220 10K 50A
	JIS B2220 16K 50A
FG, Marine ¹	EN 1092-1 DN50 PN16
	ASME B16.5 Class 150 NPS 2 JIS B2220 10K 50A
	JIS B2220 16K 50A
FG, ASME	ASME B16.5 Class 150 NPS 2
	EN 1092-1 DN50 PN16
FG, PED	EN 1092-1 DN50 PN16
	ASME B16.5 Class 150 NPS 2
FD, pvcALS	EN 1092-1 DN50 PN25
	ASME B16.5 Class 150 NPS 4
	ASME B16.5 Class 300 NPS 2 (Rectangular Loose Flange) JIS B2220 20K 50A (Rectangular Loose Flange)
FD, ASME	ASME B16.5 Class 300 NPS 2 (Rectangular Loose Flange)
FD, PED	EN 1092-1 DN50 PN25
	ASME B16.5 Class 300 NPS 2 (Rectangular Loose Flange)

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

Pipe connections

Connection type	Connection standard
Threaded port	ISO 228 - G 2
Straight welded	NPS 2 (80 mm)
External thread	ISO 228 - G 2 B
	2 - 11.5 NPT

Other connection types may be available on request.

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Alfa Laval T8

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 of applications, this model is available with a large selection of plate and gasket types.

Applications

- Biotech and Pharmaceutical
- Chemicals
- Energy and Utilities
- Food, Dairy and Beverages
- HVAC and Refrigeration
- Machinery and Manufacturing
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- Semiconductor and Electronics
- Steel

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
- CurveFlow™ distribution area
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining



- Lock washer
- Tightening bolt cover

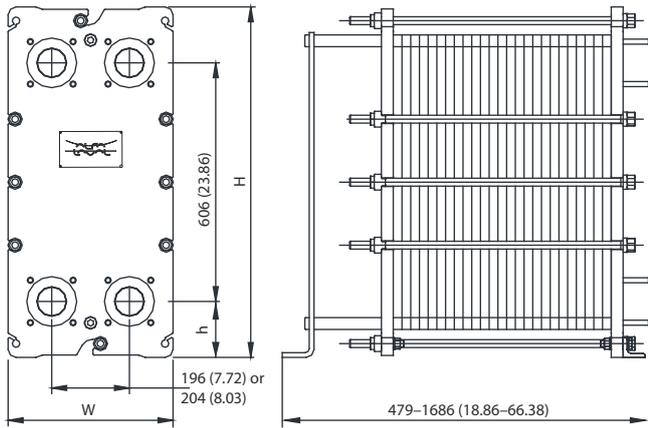
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For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM	890 (35.04")	400 (15.78")	142 (5.59")
FG	890 (35.04")	400 (15.78")	142 (5.59")
FG, ASME	890 (35.04")	416 (16.38")	142 (5.59")

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

Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	2.3 (0.091)
M	Single plate	3.9 (0.15)

Materials

Heat transfer plates	304/304L, 316/316L Ti
Field gaskets	NBR, EPDM
Flange connections	Metal lined: stainless steel, titanium Rubber lined: NBR
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	13.0 (188)	180 (356)
FM, pvcALS	13.5 (196)	180 (356)
FG, pvcALS	15.5 (225)	180 (356)
FG, ASME	10.3 (150)	250 (482)
FG, PED	17.5 (253)	180 (356)

Extended pressure and temperature rating may be available on request.

General remarks for technical information

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Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN80 PN10
	ASME B16.5 Class 150 NPS 3
	JIS B2220 10K 80A
FM, PED	EN 1092-1 DN80 PN10
	ASME B16.5 Class 150 NPS 3
FG, pvcALS	EN 1092-1 DN80 PN16
	ASME B16.5 Class 150 NPS 3
	JIS B2220 10K 80A
	JIS B2220 16K 80A
FG, ASME	ASME B16.5 Class 150 NPS 3
	EN 1092-1 DN80 PN16
FG, PED	EN 1092-1 DN80 PN16
	ASME B16.5 Class 150 NPS 3

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

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Alfa Laval T10

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, 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:



- CurveFlow™ distribution area
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- SteerLock™ plate alignment
- FlexFlow™ plate design



- Compact frame
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

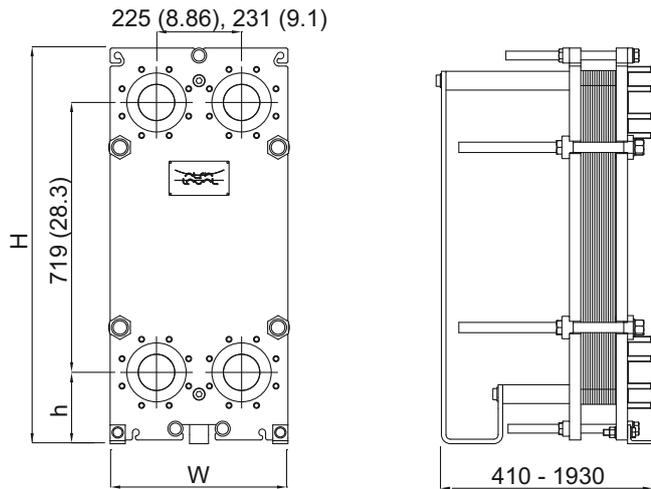
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Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM ALS, PED	1054 (41.5")	470 (18.5")	190 (7.48")
FG ALS, PED, Marine ¹	1054 (41.5")	470 (18.5")	190 (7.48")
FG ASME	1054 (41.5")	470 (18.5")	190 (7.48")
FD ALS, PED	1054 (41.5")	470 (18.5")	190 (7.48")
FD ASME	1054 (41.5")	470 (18.5")	190 (7.48")

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

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

Technical data

Plates	Type	Free channel, mm (inches)
Bc	Single plate	2.55 (0.10)
B	Single plate	2.52 (0.099)
M	Single plate	3.95 (0.155)
BDC	Double wall plate	2.6 (0.10)
Mc	Single plate	3.95 (0.155)

Materials

Heat transfer plates	304, 316/316L, C276, D205, C2000, Ni, Ti, TiPd
Field gaskets	NBR, EPDM, FKM, HNBR, HeatSeal
Flange connections	Metal lined: stainless steel, Alloy 254, titanium, Alloy C276, Nickel 200/201, TiPd11
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	15.0 (218)	150 (302)
FG, ASME	10.4 (151)	250 (482)
FG, PED	15.0 (218)	150 (302)
FG, Marine ¹	15.0 (218)	200 (392)
FD, pvcALS	25.0 (362)	200 (392)
FD, ASME	21.0 (304)	250 (482)
FD, PED	25.0 (362)	200 (392)

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

Extended pressure and temperature rating may be available on request.

General remarks for technical information

- The global offering presented in this leaflet may not be available for all regions
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Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN100 PN10
	ASME B16.5 Class 150 NPS 4 JIS B2220 10K 100A
FM, PED	EN 1092-1 DN100 PN10
	ASME B16.5 Class 150 NPS 4
FG, pvcALS	EN 1092-1 DN100 PN16
	ASME B16.5 Class 150 NPS 4
	JIS B2220 10K 100A
	JIS B2220 16K 100A
FG, Marine ¹	EN 1092-1 DN100 PN16
	ASME B16.5 Class 150 NPS 4
	JIS B2220 10K 100A
	JIS B2220 16K 100A
FG, ASME	ASME B16.5 Class 150 NPS 4
	EN 1092-1 DN100 PN16
FG, PED	EN 1092-1 DN100 PN16
	ASME B16.5 Class 150 NPS 4
FD, pvcALS	EN 1092-1 DN100 PN25
	ASME B16.5 Class 150 NPS 4
	JIS B2220 16K 100A JIS B2220 20K 100A
FD, ASME	ASME B16.5 Class 150 NPS 4
	ASME B16.5 Class 300 NPS 4 (Rectangular Loose Flange)
FD, PED	EN 1092-1 DN100 PN25
	ASME B16.5 Class 150 NPS 4

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

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

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Alfa Laval T15

Gasketed plate heat exchanger for a wide range of applications

Introduction

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Suitable for a wide range of applications, this model is available with a large selection of plate and gasket types.

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
- T-bar roller
- CurveFlow™ distribution area
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber
- SteerLock™ plate alignment



- FlexFlow™ plate design
- Compact frame
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

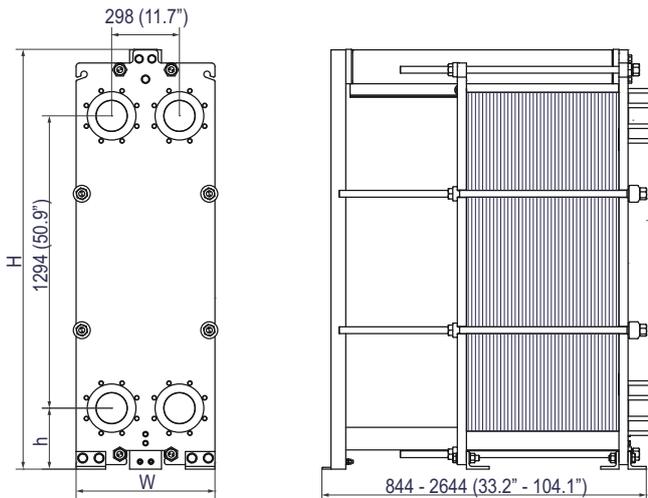
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Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM, PED, ALS, Marine ¹	1833 (72.7")	610 (24.0")	270 (10.6")
FG, PED, ALS, Marine ¹	1871 (73.7")	650 (25.6")	284.5 (11.2")
FG, ASME	1856 (73.1")	650 (25.6")	270 (10.6")
FS, PED, ALS, ASME	1871 (73.7")	650 (25.6")	284.5 (11.2")
FD, ASME	1871 (73.7")	650 (25.6")	284.5 (11.2")

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

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

Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	2.42 (0.0953)
M	Single plate	3.80 (0.1496)
BDC	Double wall plate	2.45 (0.0965)

Materials

Heat transfer plates	304, 316, 254, C276, Ni, C2000, G30, D205, Ti, TiPd
Field gaskets	NBR, EPDM, FKM, HNBR, HeatSeal
Flange connections	Metal lined: stainless steel, Alloy 254, Alloy C276, titanium Rubber lined: NBR, EPDM
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	10.4 (151)	200 (392)
FM, pvcALS	10.4 (151)	200 (392)
FM, Marine ¹	10.4 (151)	180 (356)
FG, pvcALS	16.0 (232)	200 (392)
FG, ASME	11.0 (159)	250 (482)
FG, PED	16.0 (232)	200 (392)
FG, Marine ¹	16.0 (232)	180 (356)
FD, ASME	21.0 (304)	250 (482)

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

Frame type	Max. design pressure barg (psig)	Max. design temperature °C (°F)
FS, pvcALS	38.0 (551)	200 (392)
FS, ASME	36.0 (522)	250 (482)
FS, PED	38.0 (551)	200 (392)

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

Extended pressure and temperature rating may be available on request.

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

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN150 PN10
	EN 1092-1 DN150 PN16
	ASME B16.5 Class 150 NPS 6 JIS B2220 10K 150A
FM, PED	EN 1092-1 DN150 PN10
	EN 1092-1 DN150 PN16
	ASME B16.5 Class 150 NPS 6
FM, Marine ¹	EN 1092-1 DN250 PN10
	EN 1092-1 DN150 PN16
	ASME B16.5 Class 150 NPS 6 JIS B2220 10K 150A
FG, pvcALS	EN 1092-1 DN150 PN16
	EN 1092-1 DN150 PN25
	ASME B16.5 Class 150 NPS 6 JIS B2220 10K 150A JIS B2220 16K 150A
FG, Marine ¹	EN 1092-1 DN150 PN16
	ASME B16.5 Class 150 NPS 6 JIS B2220 10K 150A JIS B2220 16K 150A
	ASME B16.5 Class 150 NPS 6
FG, ASME	EN 1092-1 DN150 PN16
	EN 1092-1 DN150 PN25
	ASME B16.5 Class 150 NPS 6
FG, PED	EN 1092-1 DN150 PN25
	ASME B16.5 Class 150 NPS 6
	ASME B16.5 Class 150 NPS 6 ASME B16.5 Class 300 NPS 6
FD, ASME	EN 1092-1 DN150 PN25
	EN 1092-1 DN150 PN40
	ASME B16.5 Class 300 NPS 6
FS, pvcALS	EN 1092-1 DN150 PN16
	EN 1092-1 DN150 PN40
	ASME B16.5 Class 300 NPS 6 JIS B2220 20K 150A
FS, ASME	ASME B16.5 Class 300 NPS 6
	EN 1092-1 DN150 PN25
FS, PED	EN 1092-1 DN150 PN40
	ASME B16.5 Class 300 NPS 6

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

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

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Alfa Laval T21

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 of applications, this model is available with a large selection of plate and gasket types.

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
- T-bar roller
- CurveFlow™ distribution area
- Glued gasket
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes
- Leak chamber



- Elongated nut
- FlexFlow™ plate design
- Compact frame
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

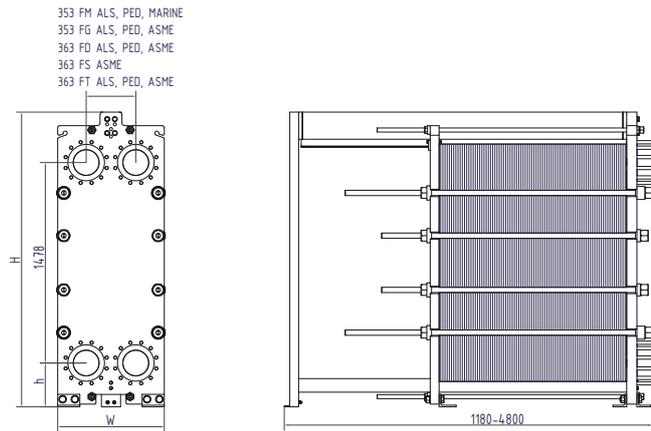
Alfa Laval 360° Service Portfolio

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.

Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM ALS, PED, Marine ¹	2082.5 (81.9")	755 (29.7")	280 (11.0")
FG ALS, PED, ASME	2135 (84.0")	780 (30.7")	285 (11.2")
FD ALS, PED, ASME	2173 (85.5")	780 (30.7")	323 (12.7")
FS ASME	2173 (85.5")	780 (30.7")	323 (12.7")
FT ALS, PED, ASME	2173 (85.5")	780 (30.7")	323 (12.7")

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

Technical data

Plates	Type	Free channel, mm (inches)
M	Single plate	3.97 (0.15)
P	Single plate	2.8 (0.11)
B	Single plate	1.92 (0.075)

Materials

Heat transfer plates	304, 316, 254, C276, D205, C2000, Alloy 33, G30, Ni, Ti, TiPd
Field gaskets	NBR, EPDM, FKM, HNBR, HeatSeal
Flange connections	Metal lined: stainless steel, 254, C276, D205, C2000, G30, Ni, Ti, TiPd Rubber lined: NBR
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	10.4 (151)	200 (392)
FM, pvcALS	10.4 (151)	200 (392)
FM, Marine ¹	10.4 (151)	100 (212)
FG, pvcALS	16.0 (232)	200 (392)
FG, ASME	10.4 (151)	250 (482)
FG, PED	16.0 (232)	200 (392)
FD, pvcALS	25.0 (362)	200 (392)
FD, ASME	21.0 (304)	250 (482)
FD, PED	25.0 (362)	200 (392)
FS, ASME	36.0 (522)	250 (482)
FT, PED	40.0 (580)	200 (392)
FT, ALS	40.0 (580)	200 (392)
FT, ASME	41.4 (600)	250 (482)

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

Extended pressure and temperature rating may be available on request.

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

Flange connections

Frame type	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
FM, Marine ¹	EN 1092-1 DN200 PN10
	ASME B16.5 Class 150 NPS 8
	JIS B2220 10K 200A
FG, pvcALS	EN 1092-1 DN200 PN16
	EN 1092-1 DN200 PN25
	ASME B16.5 Class 150 NPS 8
	JIS B2220 16K 200A
FG, ASME	ASME B16.5 Class 150 NPS 8
	EN 1092-1 PN16
FG, PED	EN 1092-1 DN200 PN10
	EN 1092-1 DN200 PN16
	EN 1092-1 DN200 PN25
FD, pvcALS	ASME B16.5 Class 150 NPS 8
	EN 1092-1 DN200 PN25
	JIS B2220 10K 200A
	JIS B2220 20K 200A
FD, ASME	ASME B16.5 Class 150 NPS 8
	EN1092-1 PN25
	ASME B16.5 Class 300 NPS 8
FD, PED	EN 1092-1 DN200 PN25
	ASME B16.5 Class 300 NPS 8
FS, ASME	ASME B16.5 Class 300 NPS 8
	EN 1092-1 DN200 PN40
FT, ALS	ASME B16.5 Class 300 NPS 8
	ASME B16.5 Class 400 NPS 8
	JIS B2220 200A 30K
FT, PED	EN 1092-1 DN200 PN40
	ASME B16.5 Class 300 NPS 8
FT, ASME	ASME B16.5 Class 400 NPS 8
	ASME B16.5 Class 300 NPS 8
	EN 1092-1 DN200 PN40

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

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

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Alfa Laval T25

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, 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

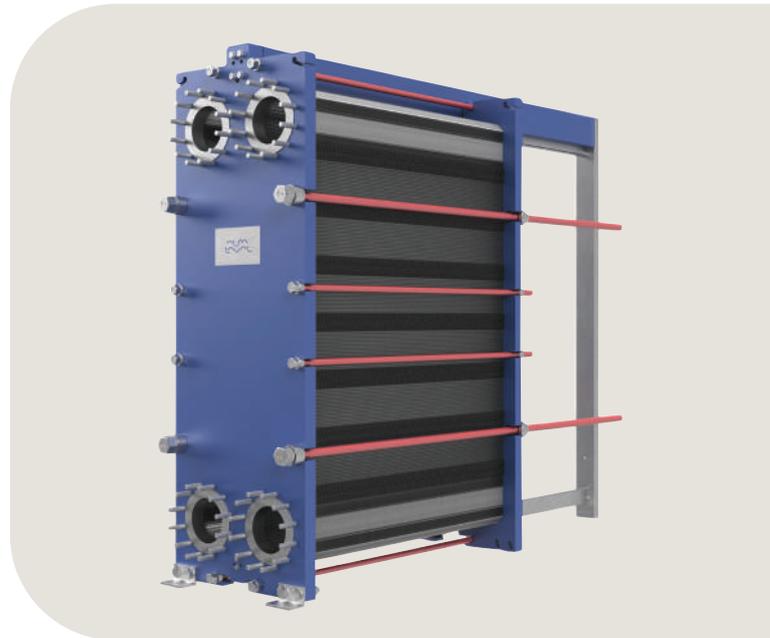
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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
- T-bar roller
- CurveFlow™ distribution area
- PowerArc™ plate pattern divider
- ClipGrip™ gasket attachment
- Offset gasket groove
- OmegaPort™ noncircular port holes



- Leak chamber
- FlexFlow™ plate design
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- Lock washer
- Tightening bolt cover

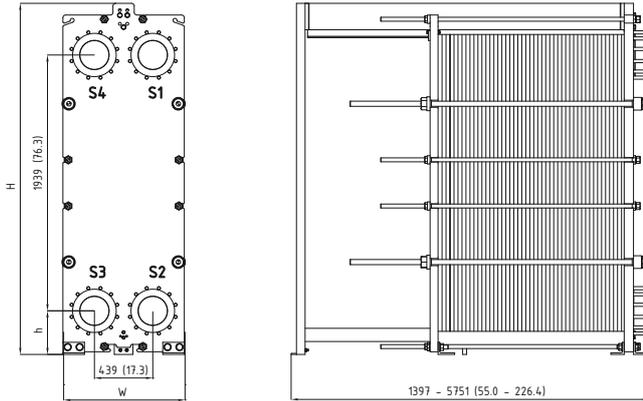
Alfa Laval 360° Service Portfolio

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.

Dimensional drawing

Measurements mm (inches)



Frame	H	W	h
FM pvcALS, PED, Marine ¹	2661 (104.8")	913 (35.9")	331 (13.0")
FG pvcALS, ASME, PED	2661 (104.8")	913 (35.9")	331 (13.0")
FD pvcALS, PED	2711 (106.7")	913 (35.9")	331 (13.0")
FD ASME	2711 (106.7")	942 (37.1")	331 (13.0")
FS pvcALS	2711 (106.7")	913 (35.9")	331 (13.0")
FS ASME	2711 (106.7")	942 (37.1")	331 (13.0")

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

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

Technical data

Plates	Type	Free channel, mm (inches)
B	Single plate	2.00 (0.079)
P	Single plate	2.90 (0.114)
M	Single plate	3.82 (0.15)

Materials

Heat transfer plates	304/304L, 316/316L, 254, C276, TiPd, Ti
Field gaskets	NBR, EPDM, FKM, HNBR
Flange connections	Metal lined: stainless steel, Alloy 254, Alloy C276,
	titanium
	Rubber lined: NBR, EPDM
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	11.5 (188)	180 (356)
FM, pvcALS	10.3 (150)	180 (356)
FM, Marine ¹	10.0 (145)	100 (212)
FG, pvcALS	16.0 (232)	180 (356)
FG, ASME	10.4 (151)	250 (482)
FG, PED	16.0 (232)	150 (302)
FD, pvcALS	25.0 (362)	180 (356)
FD, ASME	20.7 (300)	250 (482)
FD, PED	25.0 (362)	180 (356)
FS, pvcALS	30.0 (434)	180 (356)
FS, ASME	27.6 (400)	250 (482)

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

Extended pressure and temperature rating may be available on request.

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

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN200 PN10
	EN 1092-1 DN250 PN10
	EN 1092-1 DN300 PN10
	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 150 NPS 10
FM, PED	JIS B2220 10K 200A
	JIS B2220 10K 250A
	EN 1092-1 DN200 PN10
	EN 1092-1 DN250 PN10
	ASME B16.5 Class 150 NPS 8
FM, Marine ¹	ASME B16.5 Class 150 NPS 10
	EN 1092-1 DN200 PN10
	EN 1092-1 DN250 PN10
	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 150 NPS 10
FG, pvcALS	JIS B2220 10K 200A
	JIS B2220 10K 250A
	EN 1092-1 DN200 PN16
	EN 1092-1 DN250 PN16
	EN 1092-1 DN300 PN16
FG, ASME	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 150 NPS 10
	EN 1092-1 DN200 PN16
	EN 1092-1 DN250 PN16
	EN 1092-1 DN300 PN16
FG, PED	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 150 NPS 10
	EN 1092-1 DN200 PN25
	EN 1092-1 DN250 PN25
	ASME B16.5 Class 300 NPS 8
FD, pvcALS	ASME B16.5 Class 300 NPS 10
	JIS B2220 20K 200A
	JIS B2220 20K 250A
	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 150 NPS 10
FD, ASME	ASME B16.5 Class 300 NPS 8
	ASME B16.5 Class 300 NPS 10
	EN 1092-1 DN200 PN25
	EN 1092-1 DN250 PN25
	ASME B16.5 Class 300 NPS 8
FD, PED	ASME B16.5 Class 300 NPS 10
	EN 1092-1 DN200 PN40
	EN 1092-1 DN250 PN40
	ASME B16.5 Class 400 NPS 8
	ASME B16.5 Class 400 NPS 10
FS, pvcALS	JIS B2220 30K 200A
	JIS B2220 30K 250A
	ASME B16.5 Class 300 NPS 8
	ASME B16.5 Class 300 NPS 10
	EN 1092-1 DN200 PN25
FS, ASME	ASME B16.5 Class 300 NPS 8
	ASME B16.5 Class 300 NPS 10

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

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

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Alfa Laval T35

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, 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

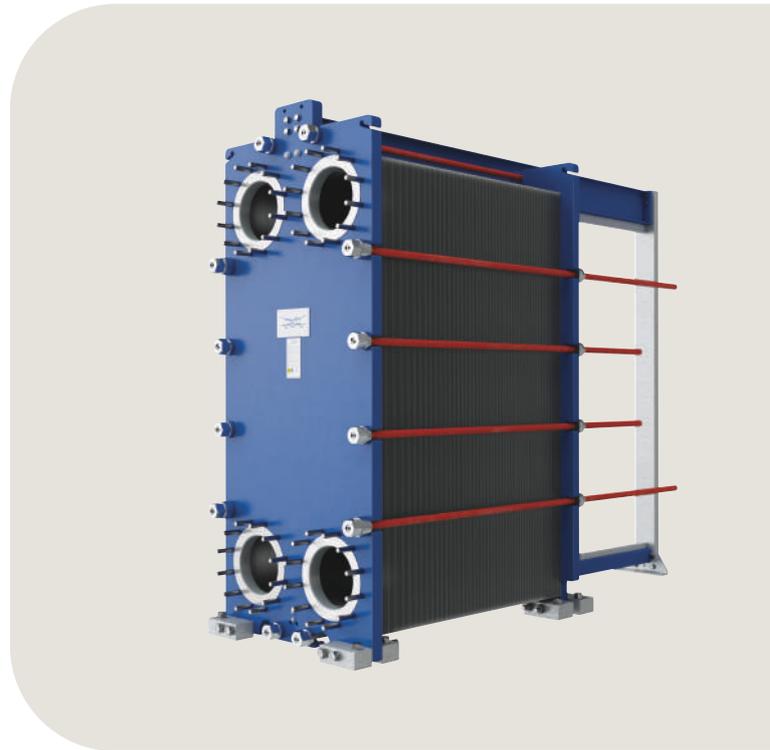
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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

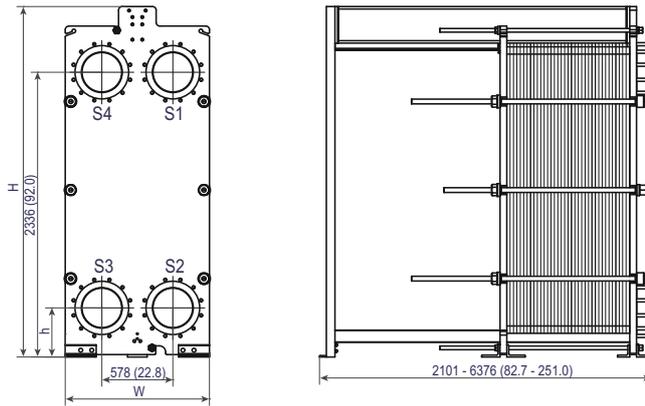
Alfa Laval 360° Service Portfolio

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.

Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FL, ALS	2875 (113.2")	1174 (46.2")	403 (15.9")
FM, ALS, PED, Marine ¹	2875 (113.2")	1174 (46.2")	403 (15.9")
FG, ALS, ASME, PED	2875 (113.2")	1174 (46.2")	403 (15.9")
FD, ALS, ASME, PED	2875 (113.2")	1174 (46.2")	403 (15.9")
FS, PED	2875 (113.2")	1174 (46.2")	403 (15.9")
FS, ASME	2875 (113.2")	1187 (46.7")	403 (15.9")

¹ Marine includes the pressure vessel codes: ABS, BV, CCS, ClassNK, DNV, KR, LR, RINA, and RMRS.

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 Ti, TiPd
Field gaskets	NBR, EPDM, FKM
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)
FL, pvcALS	6.0 (87)	100 (212)
FM, PED	10.3 (150)	180 (356)
FM, pvcALS	10.3 (150)	120 (248)
FM, Marine ¹	10.0 (145)	100 (212)
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)
FS, PED	30.0 (435)	180 (356)

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

Extended pressure and temperature rating may be available on request.

General remarks for technical information

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- All combinations may not be configurable

Flange connections

Frame type	Connection standard
FL, 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 JIS B2220 10K 350A
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 JIS B2220 10K 350A
FM, PED	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10 ASME B16.5 Class 150 NPS 12 ASME B16.5 Class 150 NPS 14
FM, Marine ¹	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 6 JIS B2220 10K 300A 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 JIS B2220 16K 300A JIS B2220 16K 350A
FG, pvcALS	ASME B16.5 Class 150 NPS 12 ASME B16.5 Class 150 NPS 14 JIS B2220 16K 300A JIS B2220 16K 350A
	ASME B16.5 Class 150 NPS 12 ASME B16.5 Class 150 NPS 14
FG, ASME	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, 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 JIS B2220 20K 300A JIS B2220 20K 350A
FD, pvcALS	ASME B16.5 Class 300 NPS 12 ASME B16.5 Class 300 NPS 14 JIS B2220 20K 300A JIS B2220 20K 350A
	ASME B16.5 Class 300 NPS 12 ASME B16.5 Class 300 NPS 14
FD, ASME	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, 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
	ASME B16.5 Class 300 NPS 12 ASME B16.5 Class 300 NPS 14 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, RINA, and RMRS.

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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, 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

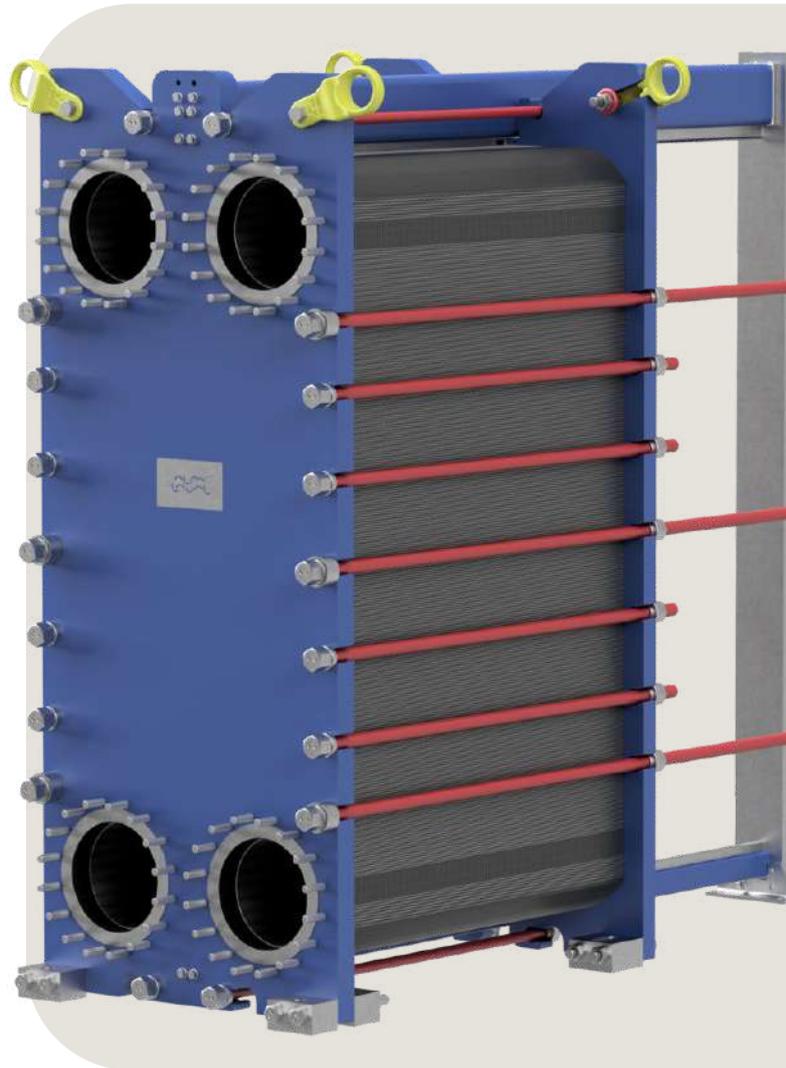
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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
- 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

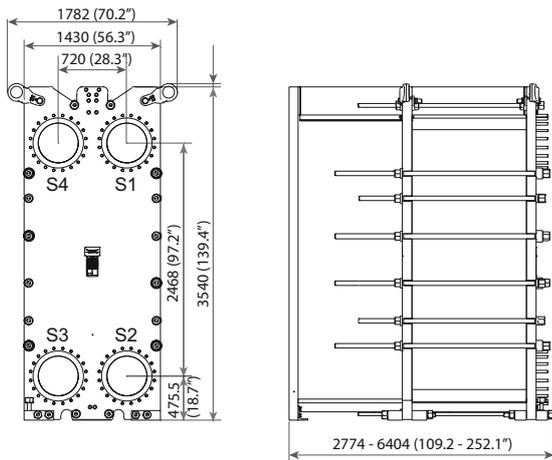
Our extensive service offering ensure top performance from your Alfa Laval equipment throughout its life cycle. The Alfa Laval 360 Service Portfolio include installation services, cleaning and repair as well as spare parts, technical documentation and trouble shooting. We also offer

replacement, retrofit, integrity testing, monitoring and much more.

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

Dimensional drawing

Measurements mm (inches)



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

Technical data

Plates	Type	Free channel, mm (inches)
M	Single plate	4.0 (0.16)

Materials

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.

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

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN450 PN10
	EN 1092-1 DN500 PN10
	ASME B16.5 Class 150 NPS 18
	ASME B16.5 Class 150 NPS 20
	JIS B2220 10K 450A JIS B2220 10K 500A
FG, pvcALS	EN 1092-1 DN450 PN16
	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
	ASME B16.5 Class 150 NPS 18
FD, ASME	ASME B16.5 Class 150 NPS 18
	ASME B16.5 Class 300 NPS 18

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

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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

Alfa Laval T50

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, 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

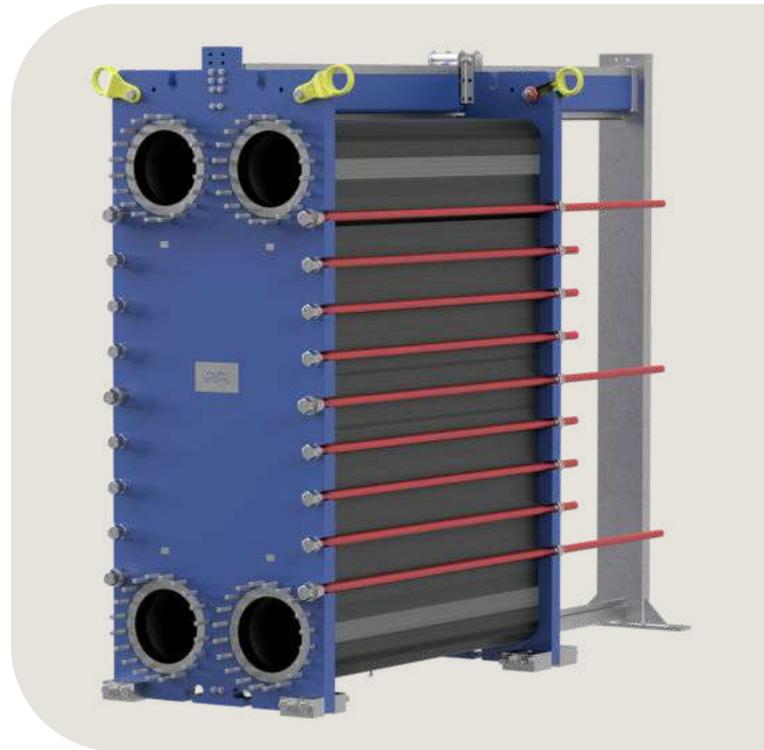
- High energy efficiency – low operating cost
- Flexible configuration – heat transfer area can be modified
- Easy to install – compact design
- High serviceability – easy to open for inspection and cleaning and easy to clean by CIP
- Access to Alfa Laval's global service network

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
- Chocolate pattern distribution area
- Glued gasket
- Base-ad gasket
- Leak chamber
- Bearing boxes



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

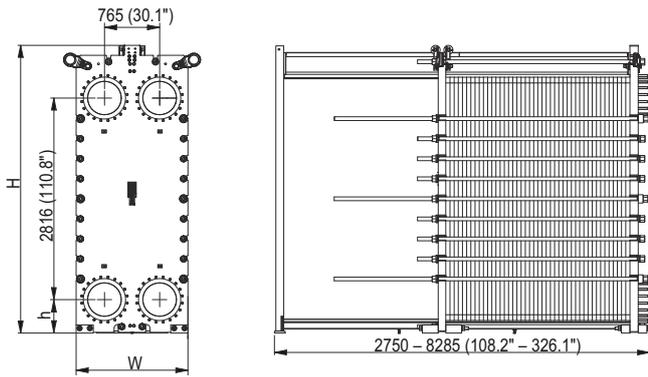
Alfa Laval 360° Service Portfolio

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, integrity testing, monitoring and much more.

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

Dimensional drawing

Measurements mm (inches)



Frame type	H	W	h
FM	4010 (157.8")	1550 (61.0")	467 (18.4")
FG	4010 (157.8")	1550 (61.0")	467 (18.4")
FD	4010 (157.8")	1550 (61.0")	467 (18.4")

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

Technical data

Plates	Type	Free channel, mm (inches)
M	Single plate	3.9 (0.15)

Materials

Heat transfer plates	316/316L Ti
Field gaskets	NBR, EPDM, HNBR
Flange connections	Carbon steel Metal lined: stainless steel, 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, ASME	10.3 (150)	250 (482)
FG, PED	20.0 (290)	200 (392)
FD, ASME	20.7 (300)	250 (482)
FD, PED	31.3 (453.9)	200 (392)

Extended pressure and temperature rating may be available on request.

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

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN500 PN10
	ASME B16.5 Class 150 NPS 20
	HG/T 20615 Class 150
FG, ASME	ASME B16.5 Class 150 NPS 20
	ASME B16.5 Class 300 NPS 20
FG, PED	EN 1092-1 DN500 PN10
	EN 1092-1 DN500 PN16
	ASME B16.5 Class 300 NPS 20
FD, ASME	ASME B16.5 Class 150 NPS 20
	ASME B16.5 Class 300 NPS 20
FD, PED	EN 1092-1 DN500 PN25
	ASME B16.5 Class 300 NPS 20

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

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