

Alfa Laval M3

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.

In addition to normal single plate configuration, this model is also available with double wall plates. Double wall plates are used as an extra precaution to avoid intermixing of fluids.

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:

- Glued gasket
- Clip-on gasket
- Leak chamber
- 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.

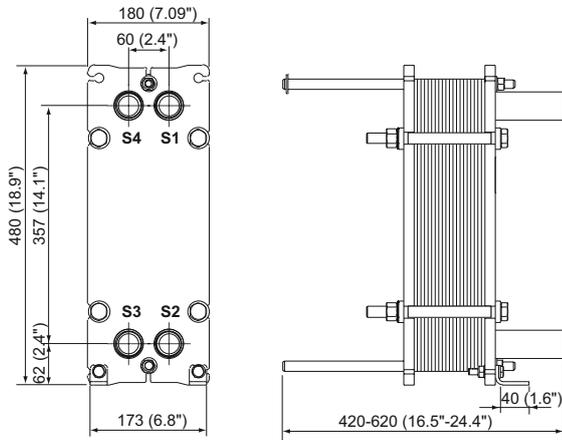
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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)



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

Technical data

Plates	Type	Free channel, mm (inches)
M3	Single plate	2.4 (0.095)
D	Double wall plate	2.4 (0.095)

Materials

Heat transfer plates	316/316L
	Alloy C276
	Ti, TiPd
Field gaskets	Ti, TiPd
Flange connections	NBR, EPDM, FKM
Pipe connections	Carbon steel
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)	177 (350)
FG, PED	16.0 (232)	180 (356)

Extended pressure and temperature rating may be available on request.

Pipe connections

Connection type	Connection standard
Threaded port	ISO 228 - G 1 1/4
External parallel threaded	ISO 228 - G 1 1/4 B
External tapered threaded	ISO 7 - R 1 1/4
	1 1/4 - 11.5 NPT

Other connection types may be available on request.

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How to contact Alfa Laval

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Alfa Laval MA30

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
- Glued gasket
- Leak chamber
- Bearing boxes
- Fixed bolt head



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

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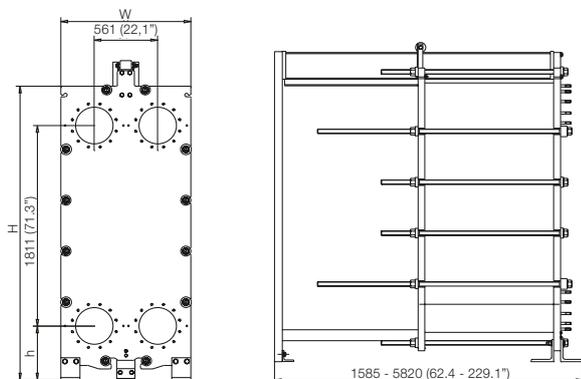
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Dimensional drawing

Measurements mm (inches)



Type	H	W	h
MA30-FM	2882 (113.5")	1170 (46.1")	485 (19.1")
MA30-FG	2918 (114.9")	1170 (46.1")	521 (20.5")
MA30-FD	2918 (114.9")	1170 (46.1")	521 (20.5")

Technical data

Plates	Type	Free channel, mm (inches)
MA30-M	Single plate	5.0 (0.20)

Materials

	316/316L, 254
Heat transfer plates	C-276 Ti
Field gaskets	NBR, EPDM NBR, EPDM, FKM
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, PV-code	Max. design pressure (barg/psig)	Max. design temperature (°C/°F)
FM, ASME	6.9/100	180/356
FM, PED	10.0/145	160/320
FG, ASME	10.7/155	250/482
FG, PED	16.0/232	210/410
FD, ASME	21.5/312	250/482
FD, PED	25.0/362	180/356

Extended pressure and temperature rating may be available on request.

Flange connections

Frame model	Connection standard
FM, ASME	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
FM, PED	EN 1092-1 DN300 PN10
	EN 1092-1 DN350 PN10
	ASME B16.5 Class 150 NPS 12
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
FD, ASME	ASME B16.5 Class 300 NPS 12
	ASME B16.5 Class 300 NPS 14
FDc, ASME	
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

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

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