

# Alfa Laval Semi-welded MA30

## Gasketed plate heat exchanger for demanding applications

### Introduction

Alfa Laval Industrial semi-welded line is used when gaskets are not suitable for one of the process media. The semi-welded line can also withstand a higher design pressure compared to fully gasketed plate-and-frame heat exchangers.

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

### Applications

- Chemicals
- Energy and Utilities
- HVAC and Refrigeration
- Marine and Transportation
- Mining, Minerals and Pigments
- Pulp and Paper
- 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
- RefTight™ sealing system
- Bearing boxes
- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining



- Lock washer
- Pressure plate roller
- Tightening bolt cover
- Optimized Alfa Laval drain connection

### 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.

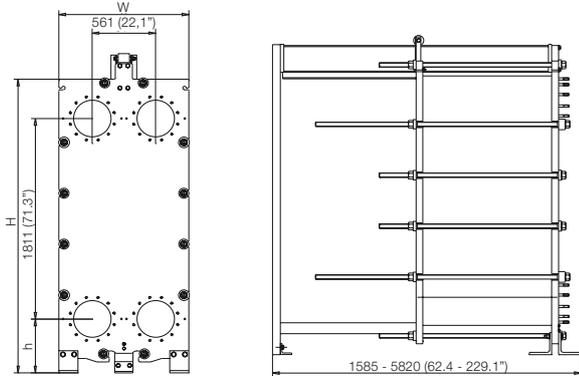
For information about our complete service offering and how to contact us - please visit [www.alfalaval.com/service](http://www.alfalaval.com/service).

## 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)



Type	H	W	h
MA30-WFG	2940 (115.7")	1170 (46.1")	521 (20.5")
MA30-WFD	2940 (115.7")	1170 (46.1")	521 (20.5")
MA30-WF	2940 (115.7")	1170 (46.1")	521 (20.5")

## Technical data

Plates	Type	Free channel, mm (inches)
MA30-W	Semi-welded	4.0 (0.16)

## Materials

Heat transfer plates	304/304L, 316/316L, 904L, 254 C-276, C-2000, D-205 Ti, TiPd
Field gaskets	NBR, EPDM
Ring gaskets	NBR, EPDM, FKM, FEPM, PTFE, CR
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)
FG, ASME	10.3/150	177/350
FG, PED	16.0/232	180/356
FGR, PED	16.0/232	200/392
FD, ASME	20.7/300	177/350
FD, PED	25.0/362	180/356
FDR, PED	25.0/362	180/356
FS, ASME	27.6/400	160/320
FS, PED	30.0/435	160/320

Extended pressure and temperature rating may be available on request.

## Flange connections

Frame model	Connection standard
FG, ASME	ASME B16.5 Class150 NPS 12
	ASME B16.5 Class150 NPS 14
FG, PED	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
	ASME B16.5 Class 150 NPS 12
FGR, PED	ASME B16.5 Class 150 NPS 14
	EN 1092-1 DN300 PN16
	EN 1092-1 DN350 PN16
FD, ASME	ASME B16.5 Class 150 NPS 12
	ASME B16.5 Class 150 NPS 14
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
FDR, PED	ASME B16.5 Class 300 NPS 14
	EN 1092-1 DN300 PN25
	EN 1092-1 DN350 PN25
FS, ASME	ASME B16.5 Class 300 NPS 14
	ASME B16.5 Class 400 NPS 12
FS, PED	ASME B16.5 Class 400 NPS 14
	EN 1092-1 DN300 PN40
	EN 1092-1 DN350 PN40
	ASME B16.5 Class 400 NPS 12
	ASME B16.5 Class 400 NPS 14

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

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## How to contact Alfa Laval

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