

Alfa Laval Semi-welded M6

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
- Food and Beverages
- 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:

- Corner guided alignment system
- Chocolate pattern distribution area
- 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, monitoring and much more.

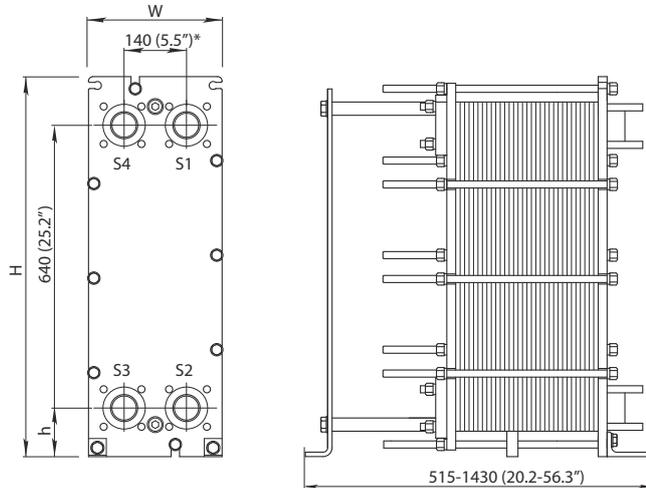
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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)



Type	H	W	h
M6-FG	920 (36.2")	320 (12.6")	140 (5.5")
M6-FD	940 (37.0")	330 (13.0")	150 (5.9")

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

Technical data

Plates	Type	Free channel, mm (inches)
M6-MW	Semi-welded	2.8 (0.098)

Materials

Heat transfer plates	316/316L, 254 C-276, C-2000 G-30 Ni, Ti
Field gaskets	NBR, EPDM
Ring gaskets	NBR, EPDM, FKM, 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	160/320
FG, PED	10.0/145	200/392
FGR, PED	16.0/232	200/392

Frame, PV-code	Max. design pressure (barg/psig)	Max. design temperature (°C/°F)
FD, ASME	20.7/300	160/320
FD, PED	25.0/362	180/356
FDR, PED	25.0/362	180/356

Extended pressure and temperature rating may be available on request.

Flange connections

Frame model	Connection standard
FG, ASME	ASME B16.5 Class 150 NPS 2
FG, PED	EN 1092-1 DN50 PN16 EN 1092-1 DN50 PN16
FGR, PED	ASME B16.5 Class 150 NPS 2 Special squared flange
FD, ASME	ASME B16.5 Class 300 NPS 2 (Rectangular Loose Flange)
FDc, ASME	
FD, PED	EN 1092-1 DN50 PN25 EN 1092-1 DN50 PN25
FDR, PED	ASME B16.5 Class 150 NPS 2 ASME B16.5 Class 300 NPS 2 Special squared flange

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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