Alfa Laval T25 Semi-welded

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.

Applications

- Hydrogen
- Industrial heat pumps
- Energy storage
- Chemicals
- Energy and Utilities
- Food, Dairy and Beverages
- HVAC and Refrigeration
- Marine and Transportation
- Mining, Minerals and Pigments
- 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
- Chocolate pattern distribution area
- T-bar roller
- CurveFlow™ distribution area
- Clip-on gasket
- ClipGrip™ gasket attachment
- OmegaPort™ noncircular port holes
- Leak chamber
- RefTight™ sealing system
- Compact frame

- Gasket guard
- UniPort

Alfa Laval service offering

Our vision is to be your trusted partner for service, driving sustainable performance together. The Alfa Laval portfolio of service offers for Plate Heat Exchangers from start-up of your operations, through operation, process improvements, and replacement. Throughout the lifecycle, we bring you more than 140 years of technical experience and innovative service solutions tailored to your business needs. Easily accessible through our people all over the world.

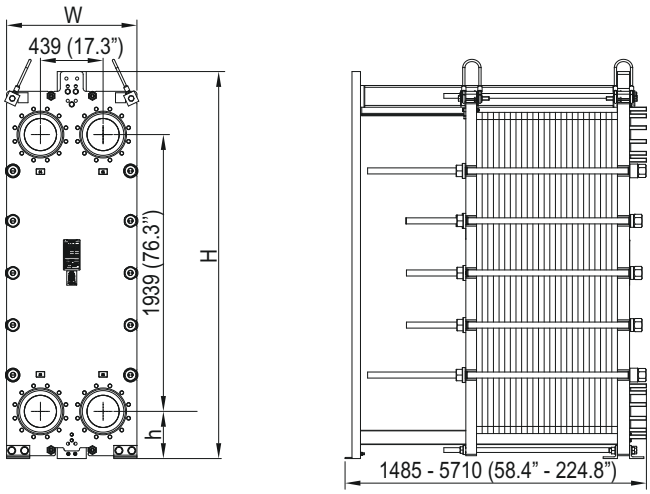
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

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, PED	2661 (104.7")	913 (35.9")	330.5 (13.0")
FM, ALS	2661 (104.7")	913 (35.9")	330.5 (13.0")
FG, PED	2661 (104.7")	913 (35.9")	330.5 (13.0")
FG, ASME	2661 (104.7")	913 (35.9")	330.5 (13.0")
FG, ALS	2661 (104.7")	913 (35.9")	330.5 (13.0")
FD, PED	2711 (106.7")	913 (35.9")	330.5 (13.0")
FD, ASME	2711 (106.7")	942 (37.0")	330.5 (13.0")
FD, ALS	2711 (106.7")	913 (35.9")	330.5 (13.0")
FS, ASME	2711 (106.7")	942 (37.0")	330.5 (13.0")
FS, ALS	2711 (106.7")	913 (35.9")	330.5 (13.0")

Technical data

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

Materials	
Heat transfer plates	304, 316, 254 C276, C2000, D205 Ni, Ti
Field gaskets	NBR, EPDM, FKM, HNBR, CR
Ring gaskets	NBR, EPDM, FKM, HNBR, PTFE, CR, 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, ALS	11.0 (159)	200 (392)
FG, pvcALS	17.0 (246)	200 (392)
FG, ASME	10.4 (151)	250 (482)
FG, PED	18.0 (261)	200 (392)
FD, pvcALS	26.0 (377)	200 (392)
FD, ASME	20.7 (300)	250 (482)
FD, PED	28.0 (406)	200 (392)
FS, pvcALS	31.0 (449)	200 (392)
FS, ASME	27.6 (400)	250 (482)

Extended pressure and temperature rating may be available on request.

Flange connections

Frame type	Connection standard
FM, pvcALS	EN 1092-1 DN32 PN10 EN 1092-1 DN200 PN10 EN 1092-1 DN250 PN10 ASME B16.5 Class 150 NPS 1 1/4 ASME B16.5 Class 150 NPS 8 ASME B16.5 Class 150 NPS 10
FM, PED	EN 1092-1 DN32 PN10 EN 1092-1 DN200 PN10 EN 1092-1 DN250 PN10 ASME B16.5 Class 150 NPS 1 1/4 ASME B16.5 Class 150 NPS 8 ASME B16.5 Class 150 NPS 10
FG, pvcALS	EN 1092-1 DN32 PN16 EN 1092-1 DN200 PN16 EN 1092-1 DN250 PN16 ASME B16.5 Class 150 NPS 1 1/4 ASME B16.5 Class 150 NPS 8 ASME B16.5 Class 150 NPS 10 JIS B2220 10K 200A JIS B2220 10K 250A JIS B2220 16K 200A JIS B2220 16K 250A
FG, ASME	ASME B16.5 Class 150 NPS 1 1/4 ASME B16.5 Class 150 NPS 8 ASME B16.5 Class 150 NPS 10
FG, PED	EN 1092-1 DN32 PN16 EN 1092-1 DN200 PN16 EN 1092-1 DN250 PN16 ASME B16.5 Class 150 NPS 1 1/4 ASME B16.5 Class 150 NPS 8 ASME B16.5 Class 150 NPS 10
FD, pvcALS	EN 1092-1 DN32 PN25 EN 1092-1 DN200 PN25 EN 1092-1 DN250 PN25 ASME B16.5 Class 300 NPS 1 1/4 ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 300 NPS 10 JIS B2220 20K 200A JIS B2220 20K 250A
FD, ASME	ASME B16.5 Class 150 NPS 1 1/4 ASME B16.5 Class 150 NPS 8 ASME B16.5 Class 150 NPS 10 ASME B16.5 Class 300 NPS 1 1/4 ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 300 NPS 10
FD, PED	EN 1092-1 DN32 PN25 EN 1092-1 DN200 PN25 EN 1092-1 DN250 PN25 ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 300 NPS 10 ASME B16.5 Class 300 NPS 1 1/4
FS, pvcALS	EN 1092-1 DN32 PN40 EN 1092-1 DN200 PN40 EN 1092-1 DN250 PN40 ASME B16.5 Class 400 NPS 1 1/4 ASME B16.5 Class 400 NPS 8 ASME B16.5 Class 400 NPS 10 JIS B2220 30K 200A JIS B2220 30K 250A
FS, ASME	ASME B16.5 Class 300 NPS 1 1/4 ASME B16.5 Class 300 NPS 8 ASME B16.5 Class 300 NPS 10

200014845-3-EN-GB

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