

Alfa Laval TK20-W

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 semiwelded line can also withstand a higher design pressure compared to fully gasketed plate-and-frame heat exchangers.

The relatively short plate makes this model suitable for duties with short temperature programs and when a low pressure drop is appreciated. A large range of plate and gasket types is available.

Applications

- Chemicals
- · Energy and Utilities
- Food, Dairy 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:

















- Five-point alignment
- T-bar roller
- CurveFlowTM distribution area
- ClipGripTM gasket attachment
- Leak chamber
- RefTightTM sealing system
- Compact frame
- Bearing boxes



- Fixed bolt head
- Key hole bolt opening
- Lifting lug
- Lining
- · Lock washer
- · Swing feet
- 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, integrity testing, monitoring and much

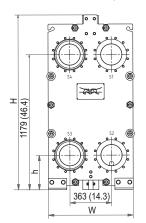
For information about our complete service offering and how to contact us - please visit www.alfalaval.com/service.

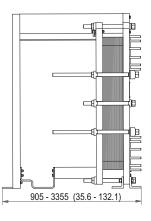
General remarks for technical information

- 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	Н	W	h
FG	1525 (60.0")	740 (29.1")	301 (11.9")
FD	1525 (60.0")	785 (30.9")	301 (11.9")
FX	1560 (61.4")	900 (35.4")	331 (13.0")

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

Technical data

Plates	Type	Free channel, mm (inches)
TK20-BW	Semi-welded	2.5 (0.098)

Materials	
Heat transfer plates	304/304L, 316/316L, 254
neat transfer plates	Ti
Field goolsete	NBR, EPDM, FKM
Field gaskets	NBR, EPDM, CR
Ring gaskets	NBR, EPDM, CR, HeatSeal
Flange connections	Metal lined: stainless steel, Alloy 254, titanium
Frame and pressure plate	Carbon steel, epoxy painted

Other materials may be available on request.

Operational data

Max. design pressure barg (psig)	Max. design temperature °C (°F)
15.5 (225)	200 (392)
16.0 (232)	50 (122)
25.0 (362)	150 (302)
20.7 (300)	150 (302)
25.0/362	150 (302)
62.1 (900)	250 (482)
63.0 (914)	150 (302)
	barg (psig) 15.5 (225) 16.0 (232) 25.0 (362) 20.7 (300) 25.0/362 62.1 (900)

Extended pressure and temperature rating may be available on request.

Flange connections

Frame type	Connection standard
	EN 1092-1 DN150 PN16
	EN 1092-1 DN200 PN16
FG, pvcALS	ASME B16.5 Class 150 NPS 6
	ASME B16.5 Class 150 NPS 8
	JIS B2220 16K 200A
	EN 1092-1 DN150 PN16
FG, PED	EN 1092-1 DN200 PN16
rg, red	ASME B16.5 Class 150 NPS 6
	ASME B16.5 Class 150 NPS 8
	EN 1092-1 DN150 PN25
	EN 1092-1 DN200 PN25
FD, pvcALS	ASME B16.5 Class 300 NPS 6
	ASME B16.5 Class 300 NPS 8
	JIS B2220 20K 200A
FD, ASME	ASME B16.5 Class 300 NPS 6
I D, AOIVIL	ASME B16.5 Class 300 NPS 8
	EN 1092-1 DN200 PN16
	EN 1092-1 DN200 PN25
FD, PED	EN 1092-1 DN200 PN40
	ASME B16.5 Class 300 NPS 6
	ASME B16.5 Class 300 NPS 8
	ASME B16.5 Class 150 NPS 8
FX, ASME	ASME B16.5 Class 900 NPS 6
	ASME B16.5 Class 600 NPS 6
	EN 1092-1 DN200 PN16
	EN 1092-1 DN200 PN25
FX, PED	EN 1092-1 DN150 PN63
	ASME B16.5 Class 150 NPS 8
	ASME B16.5 Class 900 NPS 6

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

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