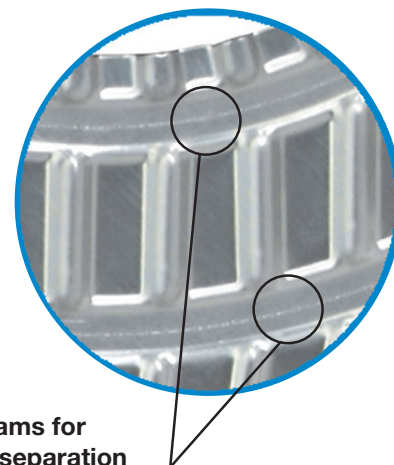


**SEMI WELD
SIGMADUAL
Module-Welded Plate Heat Exchanger**

SEMI WELD SIGMADUAL

- Actually developed SIGMADUAL series with pair-wise welded plate modules for thermal treatment of sophisticated media.
- The product side is sealed by laser-weldings around the flow channels and with ring gaskets in the port areas.
- The flow channels of the service side are sealed by elastomere gaskets, whereas the ports are laser-welded.
- Increased operating safety by double welding for product separation.
- The modular construction ensures a high flexibility. Adjustments to modified operating parameters can easily be performed by changing or adding of SIGMADUAL modules.
- The applications of SIGMADUAL are in all industries, especially in the process and refrigeration industries.
- Some of the connections available are Flanged, Sanitary-Quick Disconnect, Standard Threaded, Socket Weld, Studded Connection and Studded Connection w/Alloy Lining.
- All current plate and gasket materials are available e.g. NBR, EPDM, FKM, Viton, Chloroprene, PTFE-coated.
- Plate heat exchangers with SIGMADUAL plates can be delivered according to PED or ASME Sec. III Div. 1 UG-11(c), ANSI, CRN, API 662 and ABS.



Two welding seams for secure product separation

Dimensions	From	To
Connection size DN (in)	100 (4)	350 (14)
Height mm (in)	889 (35)	1113 (2870)
Width mm (in)	432 (17)	965 (38)

Design Limitations	From	Up To
Maximum flow capacity m3/hour (GPM)		2000 (8806)
Max design pressure barg (psig)		35 (460)
Max temperature °C (°F)	-40 (-40)	200 (320)

The following plate sizes are available:

	Port Size	Max. Operating Pressure / MAWP			Design Temperature	
		stainless steel	nickel based alloys	titanium alloys	min.	max.
	[in]	[psig]	[psig]	[psig]	[°F]	[°F]
SIGMADUAL M 25 (17" x 35")	4	450	400	375	-22	390
SIGMADUAL M 35 (17" x 44")	4	450	400	375	-22	390
SIGMADUAL M 106 (28" x 78")	8	450	400	375	-22	390
SIGMADUAL M 136 (28" x 94")	8	450	400	375	-22	390
SIGMADUAL M 156 (38" x 88")	14	450	400	375	-22	390
SIGMADUAL M 229 (38" x 112")	14	450	400	375	-22	390

