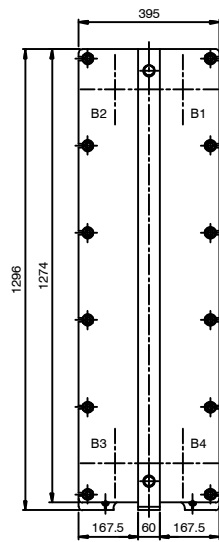
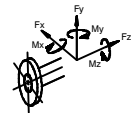


ISO VIEW



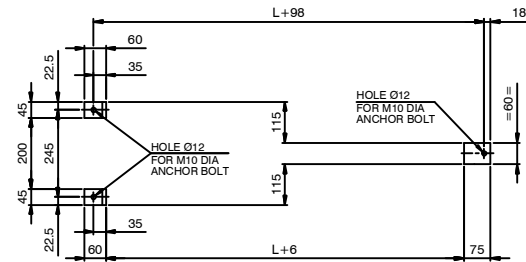
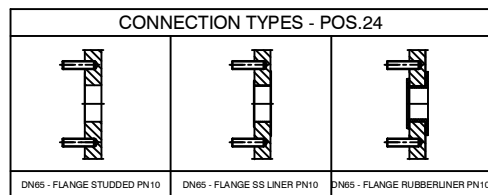
VIEW Q  
REAR SIDE  
SCALE: 1/7,5



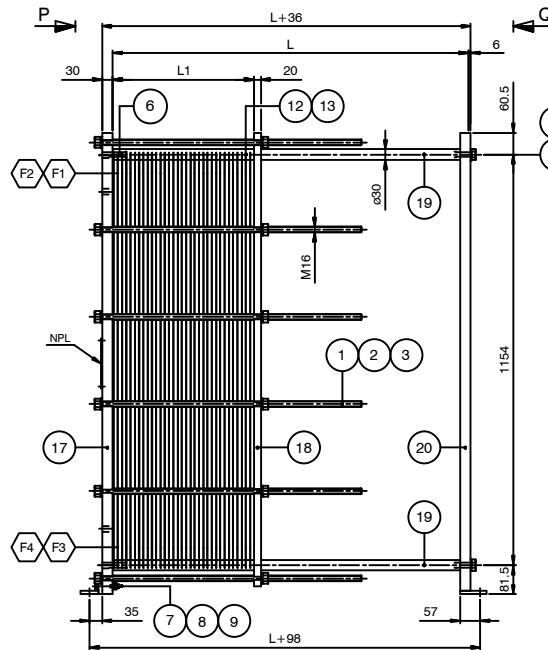
NOZZLE	Forces (N)			Moments (Nm)		
	Longitud. F <sub>y</sub>	Circum. F <sub>x</sub>	Axial F <sub>z</sub>	Longitud. M <sub>x</sub>	Circum. M <sub>y</sub>	Torsional M <sub>z</sub>
F1,F2,F3,F4	255	255	255	143	143	143

NOZZLE LOADS ACCORDING TO API 662, TABLE 1

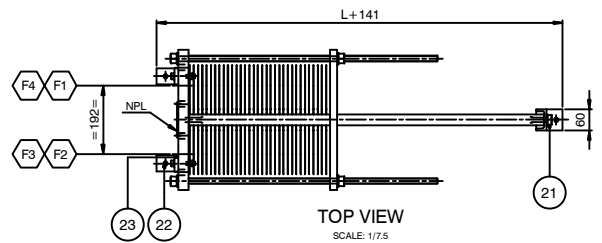
	FOUNDATION LOADS	
	FRONT SIDE (N)	REAR SIDE (N)
DEAD LOAD (DL)	3983.7	1282.5
OPERATING LOAD (DL+NOZZLE LOAD)	6133.1	2413.2



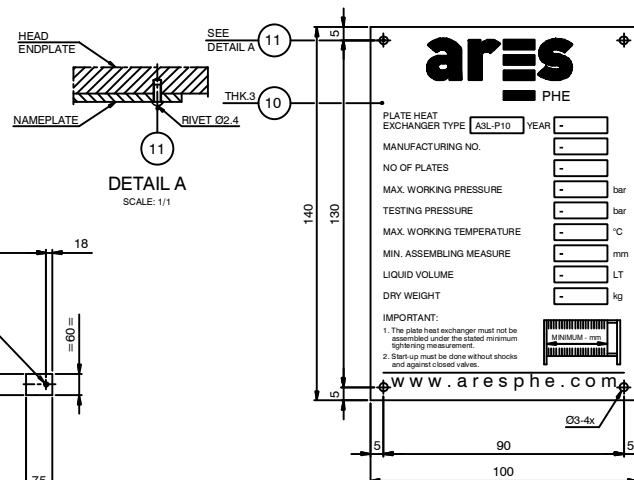
FOUNDATION PLAN



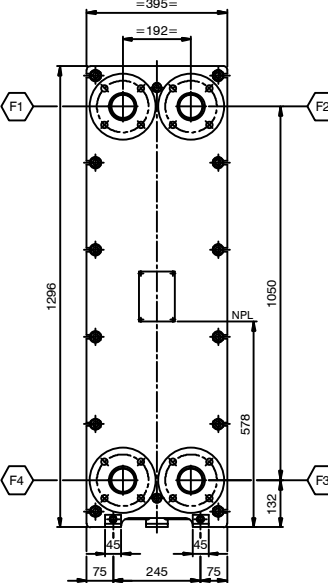
ELEVATION  
SCALE: 1/7,5



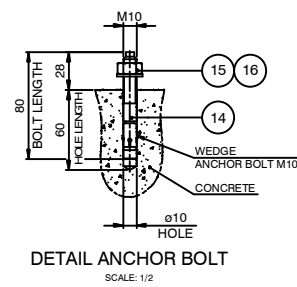
TOP VIEW  
SCALE: 1/7,5



DETAIL NAMEPLATE  
SCALE: 1/1



VIEW P  
FRONT SIDE  
SCALE: 1/7,5



DETAIL ANCHOR BOLT  
SCALE: 1/2

**ares**  
PHE

PLATE HEAT EXCHANGER TYPE [A3L-P10] YEAR [ ]  
 MANUFACTURING NO. [ ]  
 NO OF PLATES [ ]  
 MAX. WORKING PRESSURE [ ] bar  
 TESTING PRESSURE [ ] bar  
 MAX. WORKING TEMPERATURE [ ] °C  
 MIN. ASSEMBLING MEASURE [ ] mm  
 LIQUID VOLUME [ ] LT  
 DRY WEIGHT [ ] kg

IMPORTANT:  
 1. The plate heat exchanger must not be assembled under the stated minimum lightning measurement.  
 2. Start up must be done without shocks and against closed valves.

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DESIGN DATA

DESIGN ACC. TO	AD 2000 - Merkblatt / PED 97/23/EG	
MEDIUM	-	
CATEGORY	SEP	
OPERATING DATA	HOT SIDE	COLD SIDE
PRODUCT	-	-
TEST PRESSURE (AD2000 / PED)	Barg	- / -
MIN. / MAX. ALL. PRESSURE (PS)	Barg	- / -
MIN. / MAX. ALL. TEMPERATURE (TS)	°C	- / -
CONTENT (V)	L	-
HE-SURFACE	m <sup>2</sup>	-
WEIGHT NETTO	kg	-
INLET TEMPERATURE	°C	-
OUTLET TEMPERATURE	°C	-

LENGTH OF PACK	a <sub>max</sub> =L1
	a <sub>min</sub> =L1
LENGTH OF CARRY BAR	b=L

NOZZLE CONNECTIONS

POS	DIR	MEDIA	TYPE	DN
F1	IN	HOT SIDE	-	65
F2	OUT	COLD SIDE	-	65
F3	IN	COLD SIDE	-	65
F4	OUT	HOT SIDE	-	65

REFERENCE DRAWINGS & DOCUMENTS

DESCRIPTION	ARES PHE DRAWING
DETAILS	A3L-10010-02
CALCULATION	A3L-10010-00-CAL

GENERAL NOTES

- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED
- FLANGE BOLTHOLES STRADDLE CENTERLINES
- NOZZLE FLANGE FACES SMOOTH FINISH 3.2-6.4 um Ra
- ROUGHNESS OF GASKETS SURFACE SHALL BE Ra 3.2...6.3 um MAX, UNLESS NOTED OTHERWISE

NO.	QTY	DESCRIPTION	DIMENSIONS	MATERIAL	REMARKS	CERT
24	4	NOZZLE CONNECTION	-	-	-	3.1
23	2	PLATE	45x35x10	S235JR	-	-
22	2	PLATE	50x45x10	S235JR	-	-
21	1	BASE PLATE	75x60x10	S235JR	-	-
20	1	SUPPORT COLUMN	UPN60 L=1286	S235JR	-	-
19	2	CARRY/GUIDE BAR	Ø30	S235JR	-	-
18	1	FOLLOWER ENDPLATE	1274x395x20	S355J2G3	-	3.1
17	1	HEAD ENDPLATE	1296x395x30	S355J2G3	-	3.1
16	3	FLAT WASHER	M10	CS	-	-
15	3	NUT	M10	.B	-	-
14	3	WEDGE ANCH. BOLT	M10 L=80	8.8	-	-
13	-	GASKET	-	-	-	-
12	-	HE PLATE	-	-	-	3.1
11	4	RIVET	Ø2.4 L=8	SS	-	-
10	1	NAMEPLATE ARES	140x100x3	SS	-	-
9	4	WASHER	M10	CS	-	-
8	2	HEX NUT	M10	.B	-	-
7	2	BOLT	M10x60	8.8	-	-
6	2	SOCKET HEAD BOLT	M16x50	8.8	-	-
5	2	WASHER	M16	CS	-	-
4	2	BOLT	M16x45	8.8	-	-
3	24	WASHER	M16	CS	-	-
2	24	HEX NUT	M16	.B	-	-
1	12	DOUBLE-END STUD	M16	8.8	-	3.1

PART LIST

REV	DATE	HE	FOR APPROVAL	DESCRIPTION
0	23-06-12	HE	DESIGNED	

Dimensions without tolerance:	Designed by [Date]	Approved by [Date]	Rev. no. [ ]	Revision Text [ ]	Format [ ]	Scale [ ]
	ARES	ARES	0	FOR APPROVAL	A1	1:7.5+VAR.
TOL	ISO projection					
<b>ares</b> PHE			Description: PHE MODEL: A3L PN10 L=100 ÷ 1000 MM GENERAL ARRANGEMENT			
Rev. date	Rev. by	Drawing no.	Sheet			
23-06-12	HE	A3L-10010-01	1 OF 1			