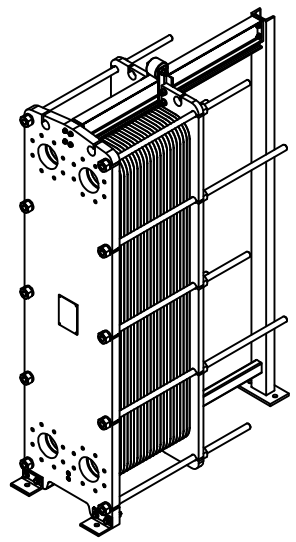
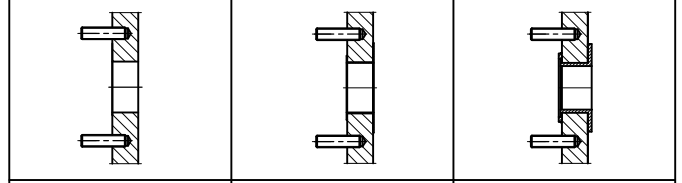
- ALL DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT NOTICE
- PROPERTY OF ARES PHE CAN NOT BE COPIED OR REDISTRIBUTED

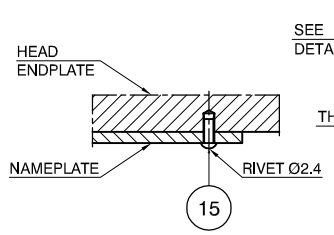


ISO VIEW

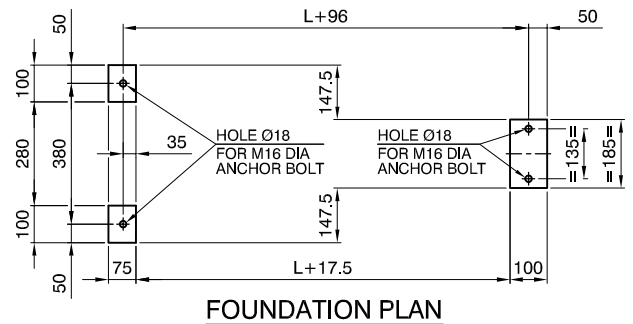
CONNECTION TYPES - POS.35



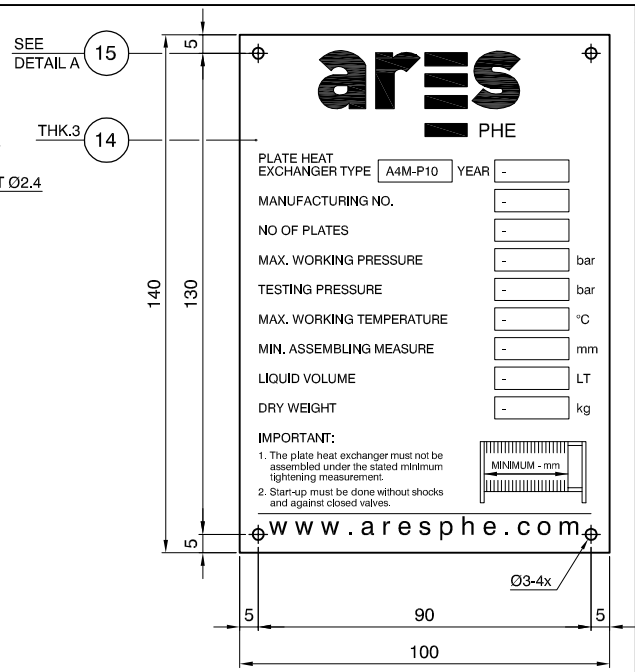
DN100 - FLANGE STUDDED PN10	DN100 - FLANGE SS LINER PN10	DN100 - FLANGE RUBBERLINER PN10



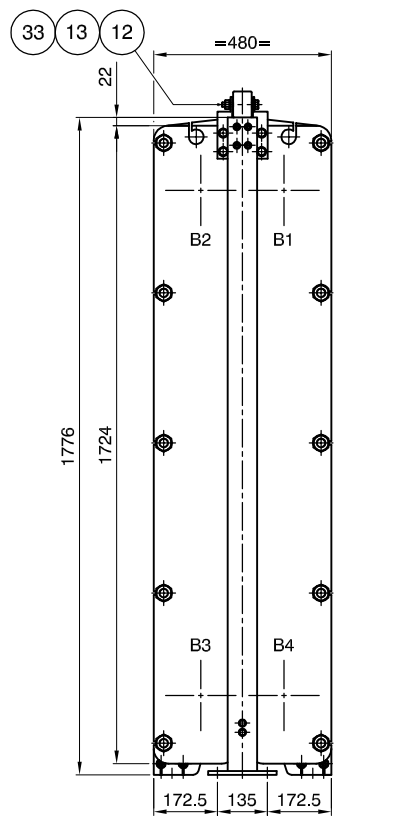
DETAIL A
SCALE: 1/1



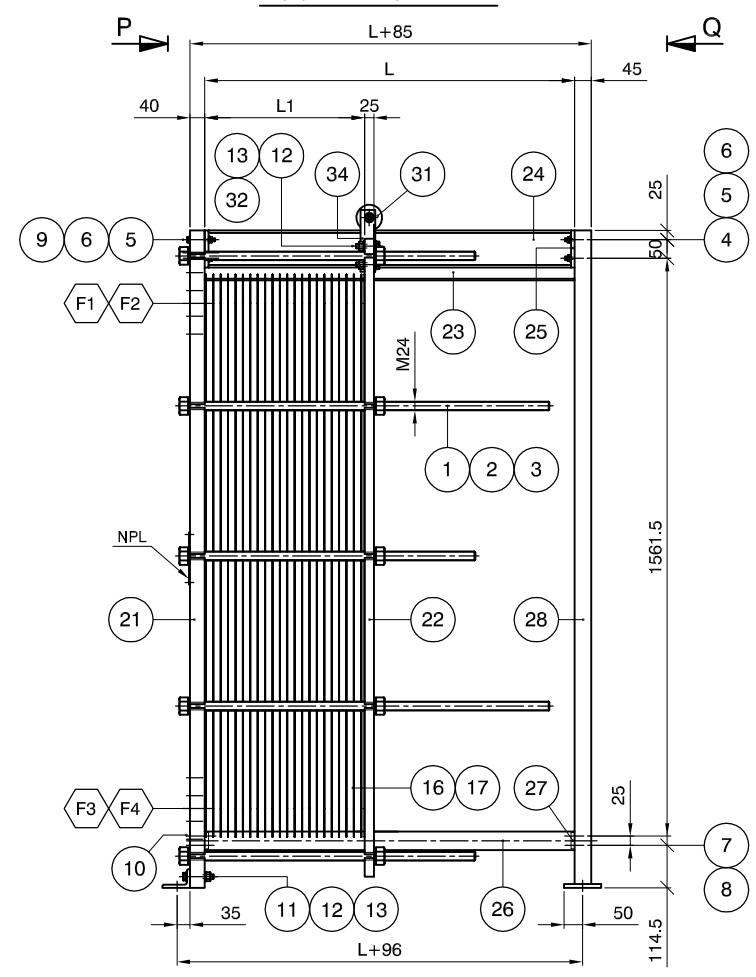
FOUNDATION PLAN



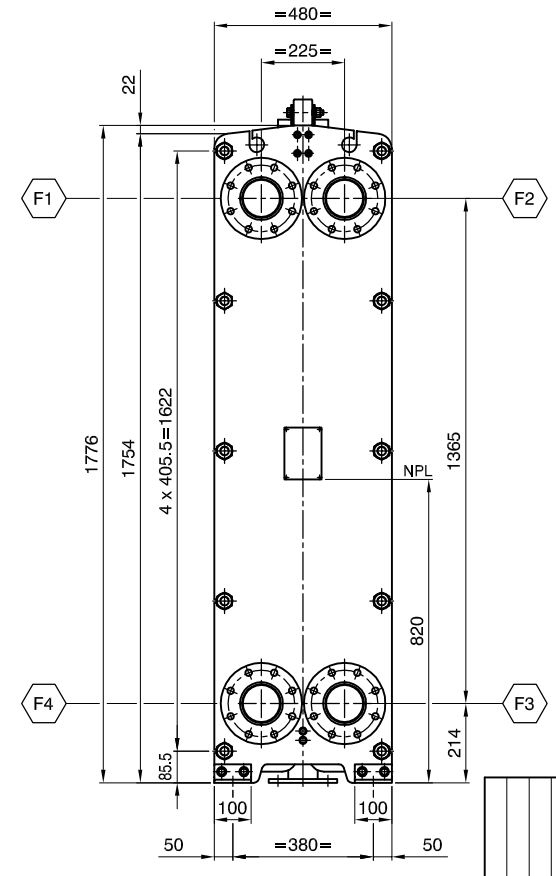
DETAIL NAMEPLATE
SCALE: 1/1



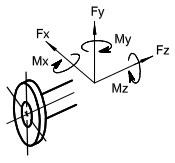
VIEW Q
REAR SIDE
SCALE: 1/10



ELEVATION
SCALE: 1/10



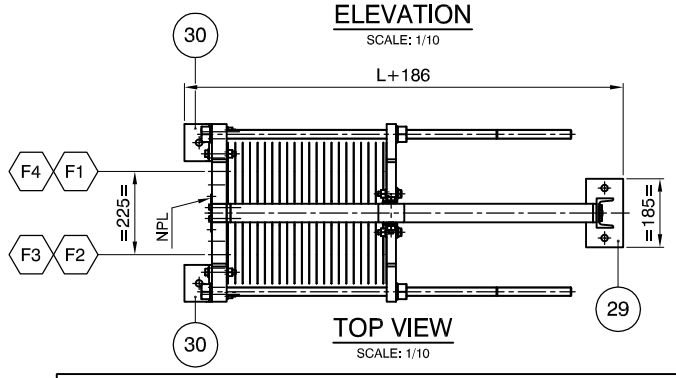
VIEW P
FRONT SIDE
SCALE: 1/10



MAX. ALLOWABLE FORCES and MOMENTS ON NOZZLES						
NOZZLE	Forces (N)			Moments (Nm)		
	Longitud. Fy	Circum. Fx	Axial Fz	Longitud. Mx	Circum. My	Torsional Mz
F1,F2,F3,F4	427.0	427.0	427.0	347.5	347.5	347.5

NOZZLE LOADS ACCORDING TO API 662, TABLE 1

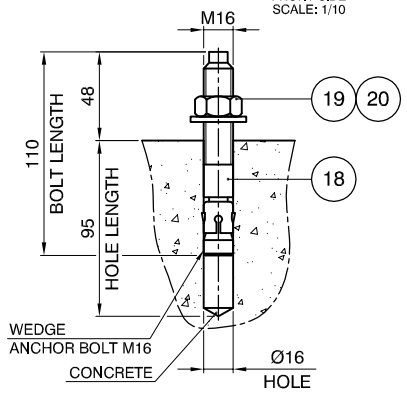
FOUNDATION LOADS		
	FRONT SIDE (N)	REAR SIDE (N)
DEAD LOAD (DL)	7077.0	2582.6
OPERATING LOAD (DL+NOZZLE LOAD)	11438.3	5235.8



TOP VIEW
SCALE: 1/10

GENERAL NOTES

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



DETAIL ANCHOR BOLT
SCALE: 1/2

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^2	-	
WEIGHT NETTO	kg	-	
INLET TEMPERATURE	°C	-	-
OUTLET TEMPERATURE	°C	-	-

LENGTH OF PACK	a_{max}=L1
	a_{min} =L1
LENGTH OF CARRY BAR	b=L

NOZZLE CONNECTIONS

POS	DIR	MEDIA	TYPE	DN
F1	IN	HOT SIDE	-	100
F2	OUT	COLD SIDE	-	100
F3	IN	COLD SIDE	-	100
F4	OUT	HOT SIDE	-	100

REFERENCE DRAWINGS & DOCUMENTS

DESCRIPTION	ARES PHE DRAWING
DETAILS	A4M-40010-02
CALCULATION	A4M-40010-00-CAL

PART LIST

item	qty	description	dimensions	material	remarks	cert
35	4	NOZZLE CONNECTION	-	-	-	3.1
34	2	ANGLE	L40x40x4 L=167	S235JR	-	-
33	1	BOLT	M12x90	8.8	-	-
32	4	BOLT	M12x60	8.8	-	-
31	1	ROLLER	Ø70 L=50	HARD BLACK PLASTIC	-	-
30	2	ANGLE	L75x50x8 L=100	S235JR	-	-
29	1	BASE PLATE	185x100x10	S235JR	-	-
28	1	SUPPORT COLUMN	UPN80 L=1766	S235JR	-	-
27	1	PLATE	44x24x10	S235JR	-	-
26	1	GUIDE BAR (SQUARE TUBE)	50x30x2	S235JR	-	-
25	1	PLATE	100x50x10	S235JR	-	-
24	1	CARRY BAR SUPPORT	IPN 100	S235JR	-	-
23	1	CARRY BAR	T 35	S235JR	-	-
22	1	FOLLOWER ENDPLATE	1724x480x25	S355 J2G3	-	3.1
21	1	HEAD ENDPLATE	1776x480x40	S355 J2G3	-	3.1
20	4	FLAT WASHER	M16	CS	-	-
19	4	NUT	M16	.8	-	-
18	4	WEDGE ANCH. BOLT	M16 L=110	8.8	-	-
17	-	GASKET	-	-	-	-
16	-	HE PLATE	-	-	-	3.1
15	4	RIVET	Ø2.4 L=8	SS	-	-
14	1	NAMEPLATE ARES	140x100x3	SS	-	-
13	18	WASHER	M12	CS	-	-
12	9	HEX. NUT	M12	.8	-	-
11	4	BOLT	M12x75	8.8	-	-
10	2	SOCKET HEAD BOLT	M10x50	8.8	-	-
9	4	BOLT	M8x70	8.8	-	-
8	2	WASHER	M10	CS	-	-
7	2	BOLT	M10x25	8.8	-	-
6	16	WASHER	M8	CS	-	-
5	8	HEX. NUT	M8	.8	-	-
4	4	BOLT	M8x35	8.8	-	-
3	20	WASHER	M24	CS	-	-
2	20	HEX. NUT	M24	.8	-	-
1	10	DOUBLE-END STUD	M24	8.8	-	3.1

REV	DATE	NAME	DESCRIPTION
0	19-12-'14	HE	FOR APPROVAL

Dimensions without tolerance:	Designed by	Date	Approved by	Date	Rev. no.	Revision Text	Format	Scale
TOL	HITARD		A. YABALI		0	FOR APPROVAL	A1	1:10+VAR.

ISO projektion

ares PHE

Description:
PHE MODEL: A4M PN10 L=400 ÷ 1000 MM
GENERAL ARRANGEMENT

Rev. date	Rev. by	Drawing no.	Sheet
19-12-'14	HE	A4M-40010-01	1 OF 1