COORD. DEI BARICENTRI center of gravity coord.	X mm	Y mm	Z mm
POMPA pump	451	5	150
MOTORE motor	-329	3	474
BASAMENTO baseplate	96	9	136
GRUPPO COMPLETO assembly	184	7	273

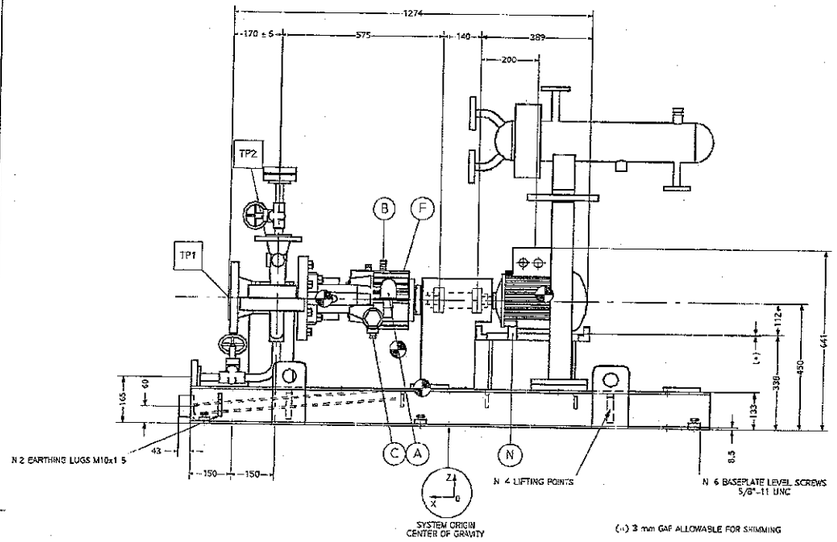
L' origine del sistema di riferimento è posto al centro in basso del basamento

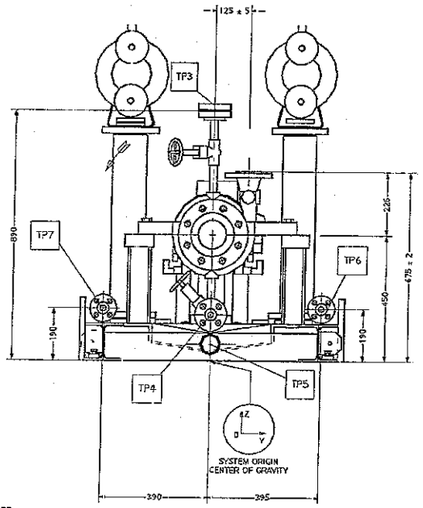
The reference system origin is at the baseplate bottom center

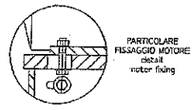
GIUNTO CON SPAZIATORE coupling with spacer	FLENDER
TIPO type	TSKS 6018
COPRIGIUNTO ANTISCINTILLA ALLUMINIO no sparking guard aluminium	YES
CALETTAMENTO GIUNTO POMPA CILINDRICO pump coupling fit cylindrical	Ø 38
CALETTAMENTO GIUNTO MOTORE CILINDRICO driver coupling fit cylindrical	Ø 28
LINGUETTA ALBERO POMPA pump keyway	8x7

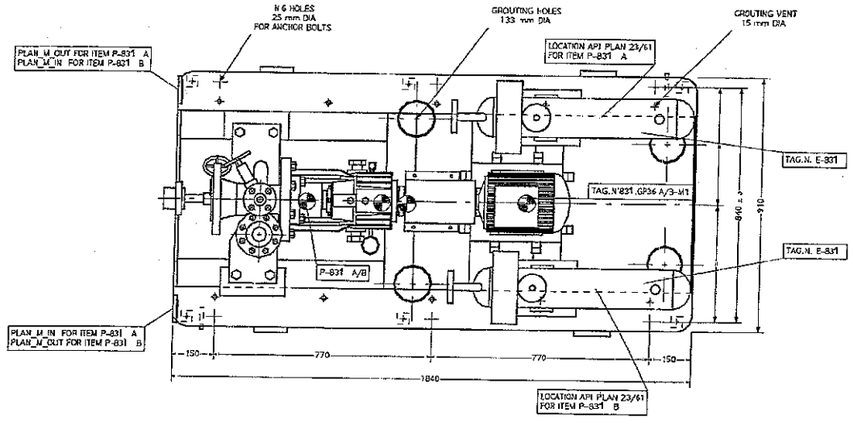
MOTORE motor	FLENDER
TIPO type	EMSV-112MB-2P4
POTENZA power	3.6 kW
VOLTAGGIO voltage	400 V
FREQUENZA-NUM. POLI frequency-poles no	50 Hz - 4
FASI phases	3
CLASSE PROT. prot. class	IP55
ENTRATA PRESSACAVO cable gland entry	ZMV221.5 1xM20x1.5 PA6GB
GIRI RPM	1425

PRESSACAVO Ended brass nickel plated cable gland for un-armoured cables PAP 2.30

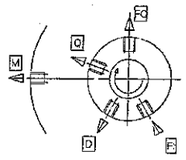





PARTICOLARE FISSAGGIO MOTORE detail motor fixing

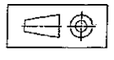


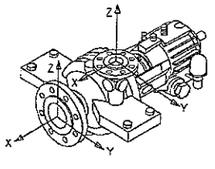
FLANGIA TENUTA MECCANICA VISTA DAL LATO GIUNTO POMPA
SEAL GLAND VIEW FROM PUMP COUPLING SIDE



FI	1/2" NPT - ENTRATA FLUSSAGGIO 1/2" NPT - FLUSHING INLET	PLAN 23
FC	1/2" NPT - USCITA FLUSSAGGIO 1/2" NPT - FLUSHING OUTLET	
Q	3/8" NPT - SFIATO TAPPATO 3/8" NPT - VENT PLUGGED	PLAN 61
D	3/8" NPT - SCARICO TAPPATO 3/8" NPT - DRAIN PLUGGED	
M	1/2" NPT - ATTACCO MANOMETRO - TAPPATO 1/2" NPT - P.I. CONNECTION - PLUGGED	

FORZE E MOMENTI MAX AMMISSIBILI SUI BOCCHELLI DELLA POMPA allowable forces and moments on pumps nozzles		FORZE - forces N			MOMENTI - moments N x m			
BOCCHELLI nozzles		Fx	Fy	Fz	Fr	Mx	My	Mz	Mr
ASPIRAZIONE suction	DIA NOM. 4	3560	2840	2320	5120	2660	1360	2000	3600
MANDATA discharge	DIA NOM. 2	1420	1160	1780	2560	920	460	700	1240

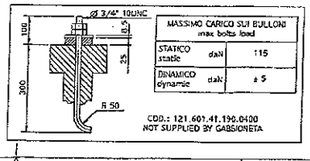




LE TOLLERANZE RELATIVE AI PUNTI TERMINALI DI TUTTE LE LINEE AUSILIARIE, DRENAGGI E SFIATI SONO PARI A ± 10 mm

tolerances relevant to position of all auxiliary lines terminal points drains and vents are ± 10 mm

DILATAZIONI TERMICHE thermal expansions	X mm	Y mm	Z mm
ALBERO POMPA pump shaft	-0.2	0	0.02
ALBERO MOTORE motor shaft			



MASSIMO CARICO SUI BULLONI max bolts load		
STATICO stable	daN	115
DINAMICO dynamic	daN	± 5

CDD.: 121.601.41.190.0400
NOT SUPPLIED BY GABBIONETA

LINEA DI FLUSSAGGIO flushing line	PLAN: 23	DWG.	82148_AUX
LINEA DI LAVAGGIO quench line	PLAN: 61	DWG	
LINEA DI RAFFREDD cooling line	PLAN: M	DWG:	
LINEA DI CIRCOLAZIONE circulation line	PLAN: N.A.	DWG:	
DIS. DI SEZIONE E LISTA PEZZI sectional dwg and bill of materials		N° 082148 SEC - N° 82148	
MOTORE ELETTRICO electrical motor		DWG:	MLA11-0023
TENUTA MECCANICA mechanical seal		DWG:	979743

DISEGNI DI PROGETTO DIMENSIONALI SUGLI ANELLI
design sizing of sensitive clearances
front : 0.45 mm
back : 0.45 mm

ZADKINE

PIPING DESIGN – TOETS – POMP TEKENING

TEKENING ALLEEN TE GEBRUIKEN VOOR OPDRACHT PIPING CURSUS

Piping LEIDINGEN
Een vak apart!

RATED (FLOW)	21.4m3/h
HEAD	12.8m
LIQUID	CONDENSATE
DENSITY	923Kg/m3

NOZZLE	QTY	SIZE	DESCRIZIONE description
TP7	1	3/4"	PLAN_M IN/OUT FLANGIATO 3/4"ANSI 150 RF PLAN_M in/out flanged 3/4" ansi 150 rf
TP6	1	3/4"	PLAN_M IN/OUT FLANGIATO 3/4"ANSI 150 RF PLAN_M in/out flanged 3/4"ansi 150 rf
TP5	1	2"	DRENAGGIO BASE baseplate drain
TP4	1	3/4"	DRENAGGIO VALVOLATO E FLANGIATO ANSI 600 RF (BW – 125÷250 AARH) drain valved and flanged ANSI 600 RF (BW – 125÷250 AARH)
TP3	1	3/4"	SFIATO VALVOLATO E FLANGIATO ANSI 600 RF (BW – 125÷250 AARH)CON FL. CIECA vent valved and flanged ANSI 600 RF (BW – 125÷250 AARH)with blind flange
TP2	1	2	PLANGIA PREMENTE ANSI 300 RF (125÷250 AARH) discharge flange ANSI 300 RF (125÷250 AARH)
TP1	1	4	PLANGIA ASPIRANTE ANSI 300 RF (125÷250 AARH) suction flange ANSI 300 RF (125÷250 AARH)
N	8	1/2"	VITI PER POSIZIONAMENTO MOTORE (UNC) adjusting motor screws (UNC)
F	1	/	POSIZIONE ACCELEROMETRO accelerometer position
C	1	1/2"	SCARICO OLIO DI LUBRIFICAZIONE TAPPATO lubrication oil drain plugged
B	1	1/2"	TAPPO DI CARICO OLIO DI LUBRIFICAZIONE & SFIATO SUPPORTO breather and oil filling hole
A	1	1/4"	OLIATORE A LIVELLO COSTANTE constant level oiler

ATTACCHI FILETTATI – PIPING CONNECTIONS NPT ASME B1.20.1-83

TENUTA MECCANICA mechanical seal	FLOWSERVE	TIPO type	QB	API PLAN 23/61
SPECIFICA MAT material spec	5U4X	CODICE API api code	BSAFN	

MASSA POMPA pump mass	184 kg
MASSA MOTORE motor mass	38 kg
MASSA BASAMENTO baseplate mass	307 kg
MASSA DELL'INTERO GRUPPO DA INSTALLARE whole assembly mass to be handled for erection	690 kg
MASSA DELL'ELEMENTO PIU' PESANTE DA MANEGGIARE PER LA MANUTENZIONE mass of the heaviest piece to be handled for maintenance	90 kg

REV	DESCRIZIONE - description	APPROVAZIONE approved	DISEGNATORE drawn by	DATA date
3	REVISIONATO SECONDO INDICAZIONI DEL CLIENTE revised according to client comments	Maestri	ANDREINI	18 Dic 2004
2	REVISIONATO SECONDO INDICAZIONI DEL CLIENTE revised according to client comments	Maestri	ANDREINI	17 Nov 2004
1	REVISIONATO SECONDO INDICAZIONI DEL CLIENTE revised according to client comments	Maestri	ANDREINI	29 Set 2004
0	COME COSTRUITO AS BUILT	Maestri	ANDREINI	03 Feb 2005

POMPE GABBIONETA

DISEGNO DI INSTALLAZIONE
general arrangement drawing

DISEGNO - drawing number
82148 GAD

POMPA TIPO pump type **R 200/50 GM1**

DATE	DISEGNATORE	SCALA
15 Jun 2004	MOGNONI	1 : 10