

ISA-S 5.1		KENNBUCHSTABEN IDENTIFICATION LETTERS				MAN STANDARD =
		1. BUCHSTABE FIRST-LETTER		FOLGEBUCHSTABEN SUCCEEDING-LETTERS		
		MESS- ODER EINGANGSGRÖSSE MEASURED OR INITIATIVE VARIABLE	ERGAENZUNG MODIFIER	ABLESUNG ODER PASSIVFUNKTION READOUT OR PASSIVE FUNC.	AUSGABE- FUNKTION OUTPUT FUNCTION	
Bedeutung der Buchstaben MEANING OF IDENTIFICATION LETTERS	A	ANALYSE ANALYSIS		ALARM		
	B	BRENNER, VERBRENNUNG BURNER, COMBUSTION				
	C	LEITFÄHIGKEIT CONDUCTIVITY			REGELUNG CONTROL	
	D	DICHTE DENSITY	DIFFERENZ DIFFERENTIAL			
	E	SPANNUNG VOLTAGE		FUEHLER SENSOR		
	F	DURCHFLOESSEN FLOW RATE	VERHAELTNIS RATIO			
	G	POSITION POSITION		SCHAUGLASS FLOW GLAS		
	H	HANDBETAETIGT HAND OPERATED				HOCH / OFFEN HIGH / OPEN
	I	STROM CURRENT		ANZEIGE INDICATE		
	J	LEISTUNG POWER	ABFRAGE SCAN			
	K	ZEIT / ZEITPROGRAMM TIME / TIME SCHEDULE	ÄNDERUNGSGRADIENT TIME RATE OF CHANGE		LEITSTATION CONTROL STATION	
	L	NIVEAU LEVEL		LAMPE LIGHT		NIEDRIG / GESCHLOSSEN LOW / CLOSED
	M	FEUCHTIGKEIT HUMIDITY	MOMENTAN MOMENTARY			MITTEL- / ZWISCHENWERT MIDDLE / INTERMEDIATE
	N					
	O			DROSSELBLENDEN ORIFICE / RESTRICTION		
	P	DRUCK / VAKUUM PRESSURE / VACUUM		MESSSTELLE POINT CONNECTION		
	Q	ANZAHL QUANTITY	INTEGRAL / SUMME INTEGRATE / TOTALIZE			
	R			SCHREIBER RECORD		
	S	DREHZAHN- / FREQUENZ SPEED / FREQUENCY	SICHERHEIT SAFETY		SCHALTER SWITCH	
	T	TEMPERATUR TEMPERATURE			MESSFORMER TRANSMITTER	
	U	ZUSAMMENGESETZTE GRÖSSEN MULTIVARIABLE		MEHRFACHFUNKTION MULTIFUNCTION	MEHRFACHFUNKTION MULTIFUNCTION	MEHRFACHFUNKTION MULTIFUNCTION
	V	VIBRATION / MECH. ANALYSE VIBRATION / MECH. ANALYSIS			VENTIL / KLASPE VALVE	
	W	MASSE / KRAFT WEIGHT / FORCE		SACK / TASCHEN WELL		
	X		X-ACHSE X-AXIS			
	Y	VORFALL / ZUSTAND EVENT / STATE	Y-ACHSE Y-AXIS		RELAIS / RECHNER RELAY / COMPUTE	
	Z		Z-ACHSE Z-AXIS		ANTRIEB DRIVE / ACTUATOR	

ISA-S 5.1		INSTRUMENTE- UND LINIENSYMBOLS INSTRUMENT- AND LINE SYMBOLS				MAN STANDARD =
		1. BUCHSTABE FIRST-LETTER		FOLGEBUCHSTABEN SUCCEEDING-LETTERS		
		MESS- ODER EINGANGSGRÖSSE MEASURED OR INITIATIVE VARIABLE	ERGAENZUNG MODIFIER	ABLESUNG ODER PASSIVFUNKTION READOUT OR PASSIVE FUNC.	AUSGABE- FUNKTION OUTPUT FUNCTION	
Bedeutung der Buchstaben MEANING OF IDENTIFICATION LETTERS	A	ANALYSE ANALYSIS		ALARM		
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	C	LEITFÄHIGKEIT CONDUCTIVITY			REGELUNG CONTROL	
	D	DICHTE DENSITY	DIFFERENZ DIFFERENTIAL			
	E	SPANNUNG VOLTAGE		FUEHLER SENSOR		
	F	DURCHFLOESSEN FLOW RATE	VERHAELTNIS RATIO			
	G	POSITION POSITION		SCHAUGLASS FLOW GLAS		
	H	HANDBETAETIGT HAND OPERATED				HOCH / OFFEN HIGH / OPEN
	I	STROM CURRENT		ANZEIGE INDICATE		
	J	LEISTUNG POWER	ABFRAGE SCAN			
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	M	FEUCHTIGKEIT HUMIDITY	MOMENTAN MOMENTARY			MITTEL- / ZWISCHENWERT MIDDLE / INTERMEDIATE
	N					
	O			DROSSELBLENDEN ORIFICE / RESTRICTION		
	P	DRUCK / VAKUUM PRESSURE / VACUUM		MESSSTELLE POINT CONNECTION		
	Q	ANZAHL QUANTITY	INTEGRAL / SUMME INTEGRATE / TOTALIZE			
	R			SCHREIBER RECORD		
	S	DREHZAHN- / FREQUENZ SPEED / FREQUENCY	SICHERHEIT SAFETY		SCHALTER SWITCH	
	T	TEMPERATUR TEMPERATURE			MESSFORMER TRANSMITTER	
	U	ZUSAMMENGESETZTE GRÖSSEN MULTIVARIABLE		MEHRFACHFUNKTION MULTIFUNCTION	MEHRFACHFUNKTION MULTIFUNCTION	MEHRFACHFUNKTION MULTIFUNCTION
	V	VIBRATION / MECH. ANALYSE VIBRATION / MECH. ANALYSIS			VENTIL / KLASPE VALVE	
	W	MASSE / KRAFT WEIGHT / FORCE		SACK / TASCHEN WELL		
	X		X-ACHSE X-AXIS			
	Y	VORFALL / ZUSTAND EVENT / STATE	Y-ACHSE Y-AXIS		RELAIS / RECHNER RELAY / COMPUTE	
	Z		Z-ACHSE Z-AXIS		ANTRIEB DRIVE / ACTUATOR	

ISA-S 5.1 / 5.5		SYMBOLS				MAN STANDARD =
		1. BUCHSTABE FIRST-LETTER		FOLGEBUCHSTABEN SUCCEEDING-LETTERS		
		MESS- ODER EINGANGSGRÖSSE MEASURED OR INITIATIVE VARIABLE	ERGAENZUNG MODIFIER	ABLESUNG ODER PASSIVFUNKTION READOUT OR PASSIVE FUNC.	AUSGABE- FUNKTION OUTPUT FUNCTION	
Bedeutung der Buchstaben MEANING OF IDENTIFICATION LETTERS	A	ANALYSE ANALYSIS		ALARM		
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	C	LEITFÄHIGKEIT CONDUCTIVITY			REGELUNG CONTROL	
	D	DICHTE DENSITY	DIFFERENZ DIFFERENTIAL			
	E	SPANNUNG VOLTAGE		FUEHLER SENSOR		
	F	DURCHFLOESSEN FLOW RATE	VERHAELTNIS RATIO			
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	S	DREHZAHN- / FREQUENZ SPEED / FREQUENCY	SICHERHEIT SAFETY		SCHALTER SWITCH	
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	X		X-ACHSE X-AXIS			
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	Z		Z-ACHSE Z-AXIS		ANTRIEB DRIVE / ACTUATOR	

STANDARD		KENNZAHLEN UND BUCHSTABEN IDENTIFICATION FIGURES AND LETTERS			
		1. BUCHSTABE FIRST-LETTER		FOLGEBUCHSTABEN SUCCEEDING-LETTERS	
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Bedeutung der Buchstaben MEANING OF IDENTIFICATION LETTERS	1	ANALYSE ANALYSIS		ALARM	
	2	BRENNER, VERBRENNUNG BURNER, COMBUSTION			
	3	LEITFÄHIGKEIT CONDUCTIVITY			REGELUNG CONTROL
	4	DICHTE DENSITY	DIFFERENZ DIFFERENTIAL		
	5	SPANNUNG VOLTAGE		FUEHLER SENSOR	
	6	DURCHFLOESSEN FLOW RATE	VERHAELTNIS RATIO		
	7	POSITION POSITION		SCHAUGLASS FLOW GLAS	
	8	HANDBETAETIGT HAND OPERATED			HOCH / OFFEN HIGH / OPEN
	9	STROM CURRENT		ANZEIGE INDICATE	
	10	LEISTUNG POWER	ABFRAGE SCAN		
	11	ZEIT / ZEITPROGRAMM TIME / TIME SCHEDULE	ÄNDERUNGSGRADIENT TIME RATE OF CHANGE		LEITSTATION CONTROL STATION
	12	NIVEAU LEVEL		LAMPE LIGHT	
	13	FEUCHTIGKEIT HUMIDITY	MOMENTAN MOMENTARY		MITTEL- / ZWISCHENWERT MIDDLE / INTERMEDIATE
	14				
	15			DROSSELBLENDEN ORIFICE / RESTRICTION	
	16	DRUCK / VAKUUM PRESSURE / VACUUM		MESSSTELLE POINT CONNECTION	
	17	ANZAHL QUANTITY	INTEGRAL / SUMME INTEGRATE / TOTALIZE		
	18			SCHREIBER RECORD	
	19	DREHZAHN- / FREQUENZ SPEED / FREQUENCY	SICHERHEIT SAFETY		SCHALTER SWITCH
	20	TEMPERATUR TEMPERATURE			MESSFORMER TRANSMITTER
	21	ZUSAMMENGESETZTE GRÖSSEN MULTIVARIABLE		MEHRFACHFUNKTION MULTIFUNCTION	MEHRFACHFUNKTION MULTIFUNCTION
	22	VIBRATION / MECH. ANALYSE VIBRATION / MECH. ANALYSIS			VENTIL / KLASPE VALVE
	23	MASSE / KRAFT WEIGHT / FORCE		SACK / TASCHEN WELL	
	24		X-ACHSE X-AXIS		
	25	VORFALL / ZUSTAND EVENT / STATE	Y-ACHSE Y-AXIS		RELAIS / RECHNER RELAY / COMPUTE
	26		Z-ACHSE Z-AXIS		ANTRIEB DRIVE / ACTUATOR

STANDARD		SYMBOLS			
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	6	DURCHFLOESSEN FLOW RATE	VERHAELTNIS RATIO		
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	14				
	15			DROSSELBLENDEN ORIFICE / RESTRICTION	
	16	DRUCK / VAKUUM PRESSURE / VACUUM		MESSSTELLE POINT CONNECTION	
	17	ANZAHL QUANTITY	INTEGRAL / SUMME INTEGRATE / TOTALIZE		
	18			SCHREIBER RECORD	
	19	DREHZAHN- / FREQUENZ SPEED / FREQUENCY	SICHERHEIT SAFETY		SCHALTER SWITCH
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	19	DREHZAHN- / FREQUENZ SPEED / FREQUENCY	SICHERHEIT SAFETY		SCHALTER SWITCH
	20	TEMPERATUR TEMPERATURE			MESSFORMER TRANSMITTER
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	22	VIBRATION / MECH. ANALYSE VIBRATION / MECH. ANALYSIS			VENTIL / KLASPE VALVE
	23	MASSE / KRAFT WEIGHT / FORCE		SACK / TASCHEN WELL	
	24		X-ACHSE X-AXIS		
	25	VORFALL / ZUSTAND EVENT / STATE	Y-ACHSE Y-AXIS		RELAIS / RECHNER RELAY / COMPUTE
	26		Z-ACHSE Z-AXIS		ANTRIEB DRIVE / ACTUATOR

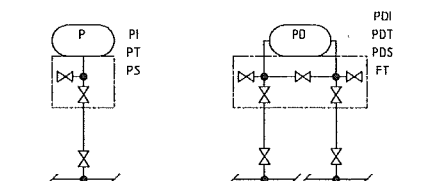
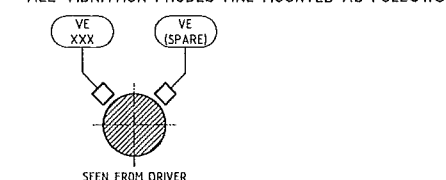
REFERENCE DOCUMENTS

P&I DIAGRAM PROCESS AND WATER
P&I DIAGRAM MECHANIC
P&I DIAGRAM LUBE OIL SYSTEM
GENERAL ARRANGEMENT
FOUNDATION PLAN
CLIENT PIPE CONNECTION LIST
INSTRUMENT LIST
SIGNAL LIST
ALARM & TRIP LIST
FUNCTION DIAGRAM

0-837 016 878 p002
0-837 016 878 p003
0-837 016 878 p004
0-837 016 420
0-837 016 421
0-837 016 422
0-837 017 127
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0-837 017 129
0-837 017 130

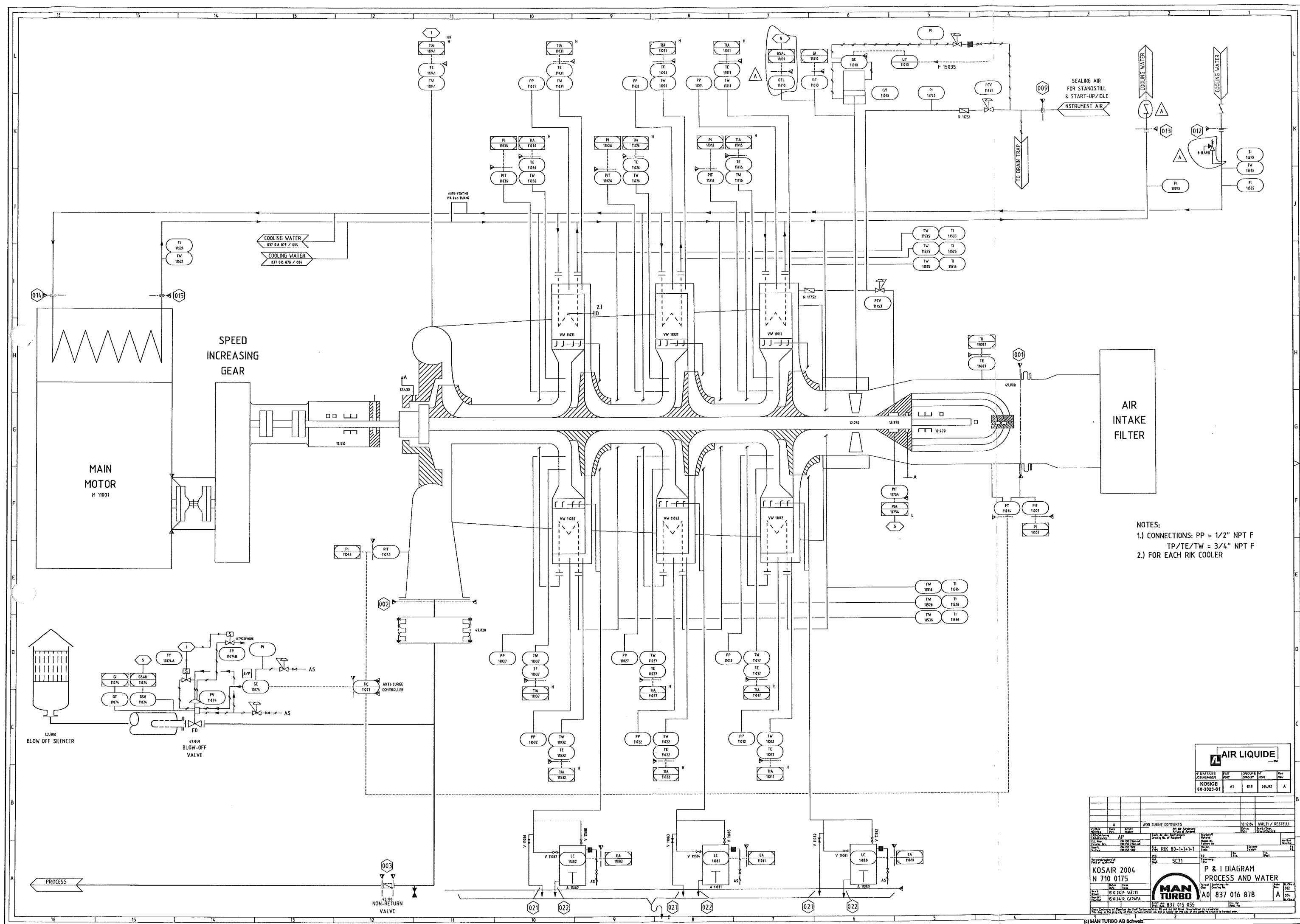
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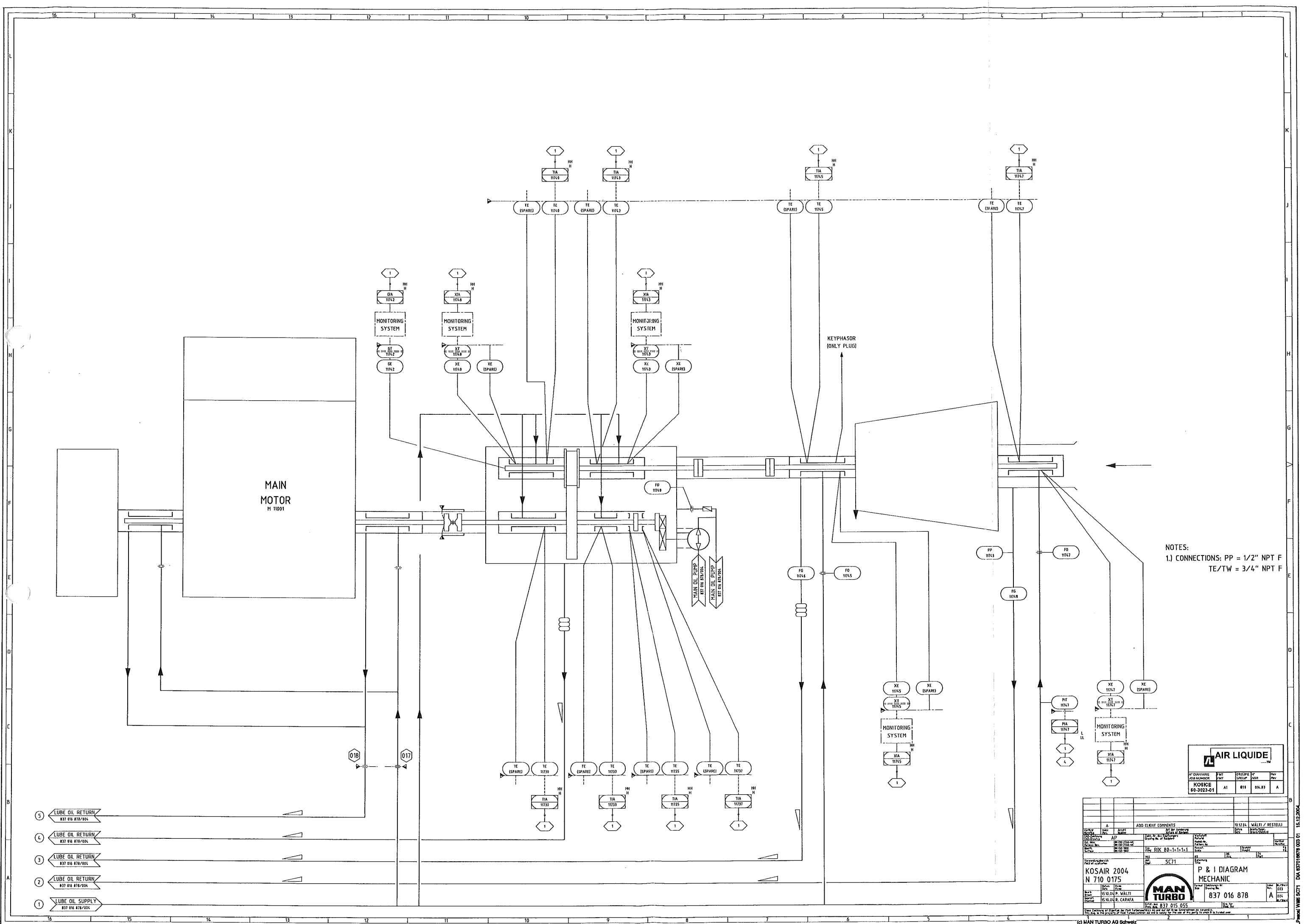
ALL VIBRATION PROBES ARE MOUNTED AS FOLLOWS:



ALL PRESSURE INSTRUMENT LINES ARE EQUIPPED WITH ROOT VALVES AND MANIFOLDS AS SHOWN ABOVE. EXCEPTIONS ARE EXPLAINED BELOW

ALL DIFFERENTIAL PRESSURE INSTRUMENTS ARE EQUIPPED WITH A 3-WAY MANIFOLD AS SHOWN ABOVE. EXCEPTIONS ARE EXPLAINED BELOW</



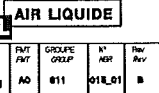
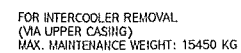


NOTES:
1.) CONNECTIONS: PP = 1/2" NPT F
TE/TW = 3/4" NPT F

- 5 LUBE OIL RETURN
837 018 837/004
- 4 LUBE OIL RETURN
837 018 837/004
- 3 LUBE OIL RETURN
837 018 837/004
- 2 LUBE OIL RETURN
837 018 837/004
- 1 LUBE OIL SUPPLY
837 018 837/004

AIR LIQUIDE				
PROJEKTANT	DATE	GROUP	REV	DATE
KOSICE	60-3023-01	A1	01.03	A

KOSAIR 2004 N 710 0175		P & I DIAGRAM MECHANIC	
837 018 837/004		837 018 837/004	
MAN TURBO		MAN TURBO	



<div><div>B</div><div>R. CARAFA</div></div>		28.02.2005	Carafa R.	08.03.2005	19317	FWL
<div><div>I</div><div>Indirizzo</div></div>		Nome		Data		Mod. No.
<div><div>R</div><div>R. CARAFA</div></div>		29.09.2004	Selinger Cn.	28.09.2004	Selinger Cn.	28.09.2004
<div><div>C</div><div>Cat.</div></div>		Designat.		Data		Approved
REC: B0 1x1x1		Weight	Checked	Grice	Approved	1:25
<div><div>MAN</div></div>		Description		Original drawing		
		GENERAL ARRANGEMENT		Similar drawing		
		MAIN AIR COMPRESS. V11001		837 313 560		
				Signed by		
KESLAR 2004		Line		Mod.		Sub-Don.
N710017		E		0-837016420		001 of 002

COMPRESSOR PLANT P&I DIAGRAM	0-837 016 878
CLIENT PIPE CONNECTION LIST	4-837 016 422
FOUNDATION PLAN & LOAD PLAN	0-837 016 421

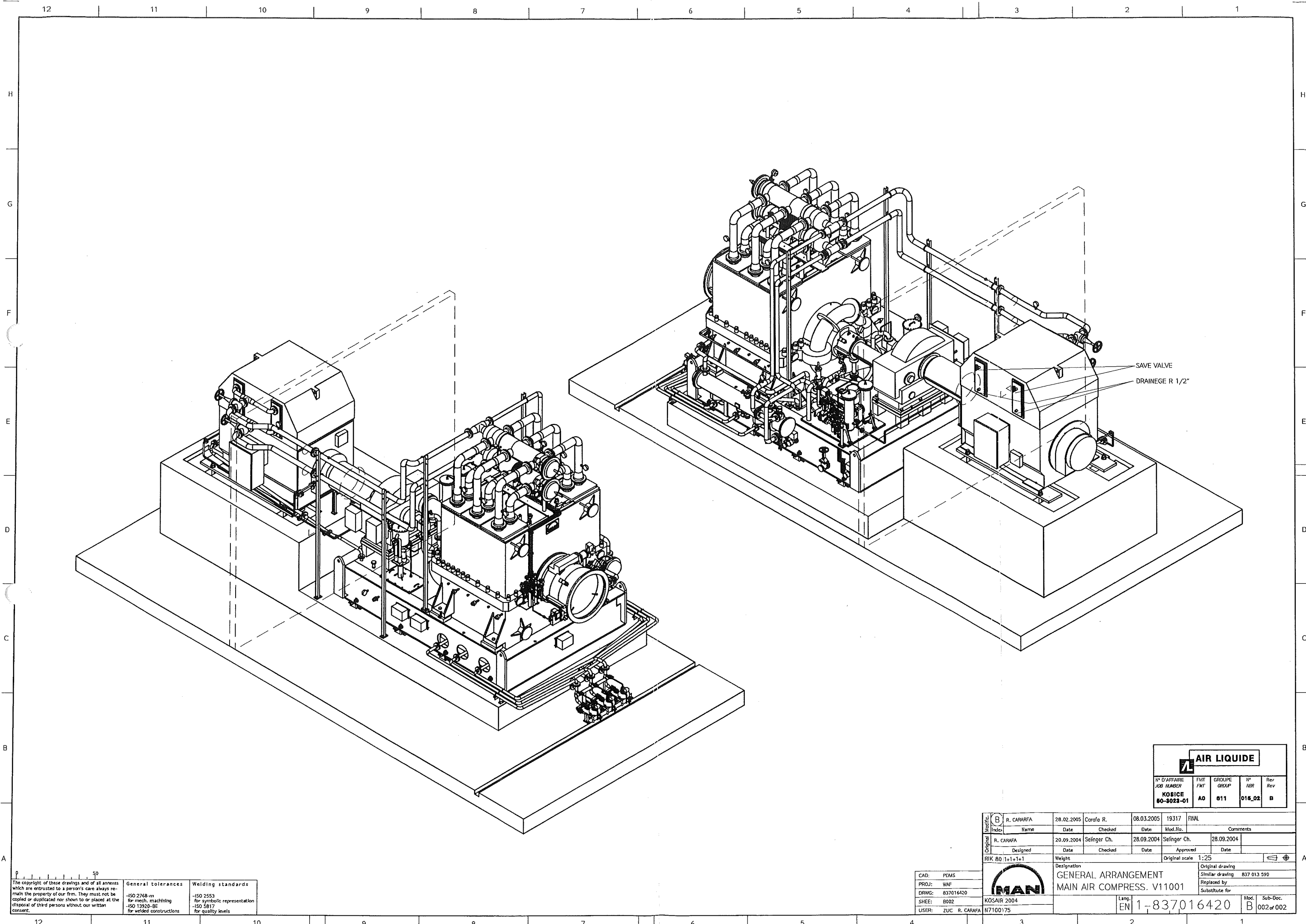
CAD:	PDMs
PROJ:	WAF
DWG:	B37016
SHEET:	0001
USER:	ZUC

Designation
GENERAL ARRANGEMENT
MAIN AIR COMPRESS. V11001

Lang.	EN	0-837016420	M
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Doc. B	Sub-Doc. 001 of 002
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<p>The copyright of these drawings and of all annexes which are entrusted to a person's care always remain the property of our firm. They must not be copied or duplicated nor shown to or placed at the disposal of third persons without our written consent.</p>	<p>General tolerances</p> <ul style="list-style-type: none"> -ISO 2768-m for mach. machining -ISO 12920-BE for welded constructions 	<p>Welding standards</p> <ul style="list-style-type: none"> -ISO 2553 for symbolic representation -ISO 5817 for quality levels
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General tolerances	Welding standards
-ISO 2768-m for mech. machining	-ISO 2553 for symbolic representation
-ISO 13920-BE for welded constructions	-ISO 5817 for quality levels

CAD: PDMS
PROJ: WAF
DRWG: 837016420
SHEET: B002
USER: ZUC R. CARAFA

Modification		Date	Checked	Date	Mod.No.	Comments
Original	R. CARAFA	28.02.2005		08.03.2005	19317	FINAL
Designed	Selinger Ch.	20.09.2004		28.09.2004		
Approved						

N° D'AFFAIRE	FMT	GROUPE	N°	Rev
JOB NUMBER	FMT	GROUP	NR	Rev
KOBICE	AO	611	015_02	B
80-3023-01				

Designation: GENERAL ARRANGEMENT MAIN AIR COMPRESS. V11001

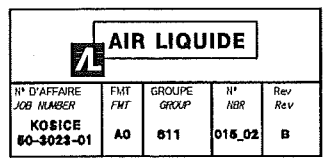
Original scale: 1:25

Original drawing: 837 013 590

Replaced by: Substituted for

Lang: EN 1-837016420

Mod: B 002 of 002



SECTION A-A

GEAR

COMPRESSOR
RIK 80-4

MAIN MOTOR

SECTION B-B

SECTION C-C

SCALE 1:5

DRAIN FUNNEL TO BE
DESIGNED BY CLIENTVERTICAL
+Y+X
← COMPRESSOR

LOAD DATA

	UNIT	MAIN MOTOR	GEAR	COMPRESSOR
TYP		HKM 180 E 04	HC 63-2	RIK 80-4
TOTAL WEIGHT (INCLUDING ROTOR)	KN	196.2	65	495
ROTOR WEIGHT	KN	54.0	22.6 / 2.2	24.6
BASE FRAME WEIGHT	KN	-	91	-
RATED POWER (100%)	KW	8600	8600	7085
RATED SPEED (100%)	RPM	1492	1492 / 7264	7264
RATED TORQUE	KNM	55.04	55.04 / 9.31	9.31

LOADS

ANCHOR BOLT	STATIC LOAD DUE TO MACHINE WEIGHT IN Y-DIRECTION (KN)	LOAD DUE TO VIBRATION POWER TRANSMISSION IN Y-DIRECTION (KN)	VALUE X DUE TO UNBALANCE (HIGH ROTOR UNBALANCE ACC. TO DIN 4024 CISSE 1988) (KN)	LOAD DUE TO SHRINKING OF CONCRETE IN Y-DIRECTION ACC. TO DIN 4024 (CISSE 1988) (KN)
1	-94.8	-3.8	±11.42	-
2	-94.8	+3.8	±11.42	-
3	-94.8	-3.8	±11.42	-
4	-94.8	+3.8	±11.42	-
5	-94.8	-3.8	±11.42	-
6	-94.8	+3.8	±11.42	-
7	-94.8	-3.8	±11.42	-
8	-94.8	+3.8	±11.42	-
9	-49.05	-19.66	±0.61	±196.78
10	-49.05	+19.66	±0.61	±196.78
11	-49.05	-19.66	±0.61	±196.78
12	-49.05	+19.66	±0.61	±196.78

FORCE

1 KG X 9.81 MS⁻² = 9.81 KMS⁻² = 9.81 N
 ACCELERATION DUE TO GRAVITY 9.81 MS⁻²
 1 N = 10.2 X 10⁻³ KP
 1 N = 10.2 X 10⁻⁴ KGF = KILOGRAM FORCE
 1 KN = 1000 N

NOTE

TOTAL WEIGHT OF GEAR/COMPRESSOR SKID 758 KN
 (INCLUDING OIL AND COOLING WATER,
 EXCLUDING PROCESS PIPING)
 TOTAL WEIGHT OF GEAR/COMPRESSOR SKID 675.2 KN
 (EXCLUDING OIL, COOLING WATER AND PROCESS PIPING)

THE DESIGN OF THE FOUNDATION WITH REGARD TO STRENGTH,
 REINFORCEMENT IS IN THE CUSTOMER RESPONSIBILITY

- ⊙¹ CENTER OF GRAVITY OF GEAR/COMPRESSOR SKID
 ⊙² CENTER OF GRAVITY OF MAIN MOTOR

REFERENCE DRAWINGS

GENERAL ARRANGEMENT 0-837 016 420
 OUTLINE OF MAIN MOTOR 5860345 (ELIN EBG)
 ALLOWABLE FORCES AND
 MOMENTS ON CASING NOZZLE 4-837 016 530

MAIN AIR COMPRESSOR V11001

AIR LIQUIDE			
PROJ. NO.	PROJ. DATE	PROJ. REV.	PROJ. REV.
001	01.02.2005	01.02.2005	01.02.2005
001	01.02.2005	01.02.2005	01.02.2005

Rev.	Date	By	Check	Comments
1	01.02.2005	S. J. J.	S. J. J.	Initial
2	28.09.2004	W. B. P.	W. B. P.	28.09.2004
3	28.09.2004	W. B. P.	W. B. P.	28.09.2004
4	28.09.2004	W. B. P.	W. B. P.	28.09.2004
5	28.09.2004	W. B. P.	W. B. P.	28.09.2004
6	28.09.2004	W. B. P.	W. B. P.	28.09.2004
7	28.09.2004	W. B. P.	W. B. P.	28.09.2004
8	28.09.2004	W. B. P.	W. B. P.	28.09.2004
9	28.09.2004	W. B. P.	W. B. P.	28.09.2004
10	28.09.2004	W. B. P.	W. B. P.	28.09.2004
11	28.09.2004	W. B. P.	W. B. P.	28.09.2004
12	28.09.2004	W. B. P.	W. B. P.	28.09.2004

FOUNDATION PLAN
 AND LOAD PLAN

EN 0-837 016 421 A 001