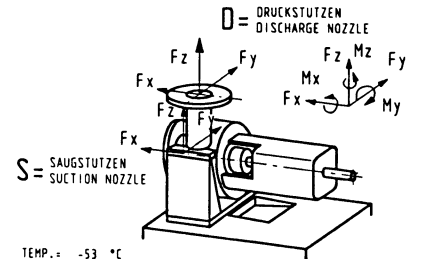


LEITUNGEN SPANNUNGSFREI ANSCHLIESSEN!
ZULÄSSIGE MASSABWEICHUNGEN FUER:
ACHSENHOEHEN FUER MASCHINEN
ANSCHLUSSMASSE FUER PUMPEN
MASSE OHNE TOLERANZANGABE - GRAUGUSSTEILE
MASSE OHNE TOLERANZANGABE - SCHWEISSTEILE
ALLGEMEINTOLERANZEN FUER BEARBEITETE TEILE

DIN 747
DIN EN 735
DIN 1686 G7818
EN 150 13920B
DIN 150 2768-M

THE LINES MUST BE CONNECTED WITHOUT TRANSMITTING ANY STRESSES OR STRAIN!
PERMISSIBLE DEVIATIONS OF DIMENSIONS FOR:
AXIS HEIGHTS FOR MACHINES
CONNECTION DIMENSIONS FOR PUMPS
DIMENSIONS WITHOUT MENTION OF TOLERANCES - GREY CAST IRON COMPONENTS
DIMENSIONS WITHOUT MENTION OF TOLERANCES - WELDED COMPONENTS
GENERAL TOLERANCES FOR MACHINED COMPONENTS

DIN 747
DIN EN 735
DIN 1686 G7818
EN 150 13920B
DIN 150 2768-M



TEMP. = -53 °C

ZULÄSSIGE KRAEFTE UND MOMENTE ENTSPRECHEN MIN. 2X API 610/B.
DIE ANGABEN GELTEN FUER STATISCHE ROHRLEITUNGSLASTEN.
BEI UEBERSCHREITUNG IST NACHPRUEFUNG ERFORDERLICH.
ADMISSIBLE FORCES AND MOMENTS CORRESPOND TO MIN. 2X API 610/B.
DATA GIVEN BELOW ARE ONLY VALID FOR STATIC PIPING LOADS.
IF VALUES ARE EXCEEDED CHECK IS NECESSARY.

KRAEFTE FORCES (N)	SAUGSTUTZEN SUCTION NOZZLE				DRUCKSTUTZEN DISCHARGE NOZZLE			
	Fx	Fz	Fy	Fres	Fx	Fz	Fy	Fres
9790	6230	7560	13850	4980	6230	4100	8970	
MOMENTE MOMENTS (Nm)	Mx	Mz	My	Mres	Mx	Mz	My	Mres
	7050	5150	3530	9420	4610	3530	2360	6270

☐ R Review for process readiness only

☒ A The document / work may proceed

☐ P Check may proceed, subject to interpretation of drawing

☐ F Check may proceed, subject to interpretation of drawing

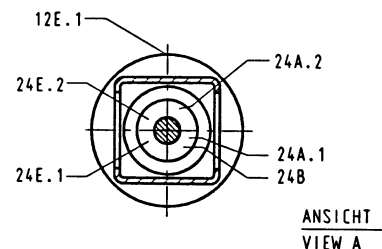
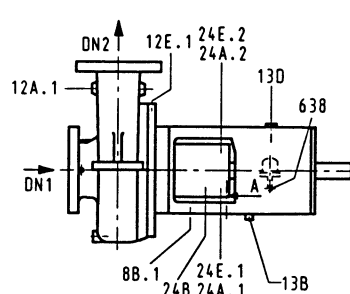
☐ X Check and proceed / work may not proceed

☐ M Check and proceed / work may not proceed

Permitted to proceed does not constitute acceptance or approval of design or construction by the reviewer, and does not release reviewer from all responsibilities and obligations.

Signature: *[Signature]* Date: *11.6.02*

24E.1/24A.1	NPT 3/8	QUENCHFLUESSIGKEIT EIN/AUS - QUENCH LIQUID INLET/OUTLET	X	-	-	-	-	-	-
31M	M10	ERDUNGSANSCHLUSS - EARTHING CONNECTION	-	X	-	-	-	-	-
24B	NPT 1/2	QUENCHFLUESSIGKEIT ABLASS - QUENCH LIQUID DRAIN	X	-	-	-	-	-	-
24E.2/24A.2	NPT 1/2	VORLAGEFLUESSIGKEIT EIN/AUS - BUFFER LIQUID INLET/OUTLET	-	-	X	-	-	-	-
12E.1/12A.1	NPT 1/2	ZIRKULATIONSFL. EIN/AUS - CIRCULATION LIQUID INLET/OUTLET	-	-	X	-	-	-	-
8B.1	NPT 1	LECKABLASS - LEAKAGE DRAIN	-	-	X	-	-	-	-
8B	NPT 1	LECKABLASS GRUNDPLATTE - LEAKAGE DRAIN BASEPLATE	-	X	-	-	-	-	-
6B	NPS1"	GEHAUSEABLASS - CASING DRAIN	BLIND FLANGE	-	-	-	-	-	-
13B	NPT 1/2	DELABLASS - DIL DRAIN	X	-	-	-	-	-	-
130	NPT 1/2	ENTLUEFTUNGSTOPFEN - VENT PLUG	X	-	-	-	-	-	-
63B	NPT 1/4	DELTANDOSREGLER - CONSTANT LEVEL OILER	WIRD LOSE MITGELIEFERT - LOOSE ITEM	-	-	-	-	-	-
ANSCHLUSS CONNECTION	GROESSE SIZE	BEZEICHNUNG DESIGNATION	MIT STOPFEN VERSCHLOSSEN/ CLOSED WITH SCREW PLUG	KUNDE/ CUSTOMER	KSB	ERF. MENGE/ QUANTITY REQU.	ACTUAL PRESSURE	DESIGN PRESSURE	
ANSCHLUESSE / CONNECTIONS		DIE AUSFUEHRUNG DES AUFTRAGES IST DURCH X GEKENNZEICHNET / THE EXECUTION OF THE ORDER IS MARKED BY X							



ANSICHT A
VIEW A

J	ASME B16.5 CL.600RF NPS1/2"	THERMOSYPHON SYSTEM DRAIN FLANGE
I	ASME B16.5 CL.600RF NPS1"	THERMOSYPHON SYSTEM - FLANGE TO FLARE
H	ASME B16.5 CL.600RF NPS1"	THERMOSYPHON SYSTEM FILLING CONNECTION FLANGE
G	ASME B16.5 CL.300RF NPS1/2"	THERMOSYPHON SYSTEM COOLING WATER OUT FLANGE
F	ASME B16.5 CL.300RF NPS1/2"	THERMOSYPHON SYSTEM COOLING WATER IN FLANGE
6B	ASME B16.5 CL.300RF NPS1"	PUMP DRAIN FLANGE
DN2	ASME B16.5 CL.300RF NPS6"	PUMP DISCHARGE FLANGE
DN1	ASME B16.5 CL.300RF NPS8"	PUMP SUCTION FLANGE
ANSCHLUSS CONNECTION	AUSFUEHRUNG DESIGN	REMARKS
FLANSCHEN / FLANGES		

GRUNDPLATTENGROESSE BASEPLATE SIZE	ANB45-832
MOTORGROESSE MOTOR SIZE	SCHORCH KA7 250M-BB01G-Z 1475RPM 52kW
KUPPLUNGSGROESSE COUPLING SIZE	FLENDER N-EUPEX H 160-180
GROESSEN / SIZES	

PUMPE	PUMP	516
GRUNDPLATTE	BASEPLATE	625
KUPPLUNG	COUPLING	18
ANTRIEB	DRIVE	445
ROHRLEITUNG	PIPELINE	60
GESAMT	TOTAL	1664
GEWICHTE / WEIGHTS		KG

OK RC / 11.6.02

3	2002-01-16	AS BUILT	STEGE	KOSMAK	SCHIRM	WILTERLICH
2	2001-12-11	AS BUILT	DRESSSEL	KOSMAK	SCHIRM	WILTERLICH
1	2001-10-19	AS BUILT	DRESSSEL	KOSMAK	SCHIRM	WILTERLICH
0	2001-07-31	1ST EDITION	DRESSSEL	KOSMAK	SCHIRM	WILTERLICH

STATUS: ISSUE DATE DESCRIPTION PRE. BY CHK. BY APP. BY PROJ. ENGR.

DRAWING TITLE: GENERAL ARRANGEMENT DRAWING FOR COLD TRAIN CONDENSATE PUMP ITEM NO.: 10-P-3371 A/B

OWNER: 10-VO-A1-RE-011-038-L P.O. NO. 2PB434

LINE: 10-VO-A1-RE-011-038-L M-ZA 50047

OWNER JOB CODE / PROJ. NO. PPOC / 707904 PPOC / 7057904

OWNER: NATIONAL PETROCHEMICAL COMPANY MARUN PETROCHEMICAL COMPANY

PROJECT: C2+ RECOVERY AND GAS CRACKING PLANTS

CONTRACTOR: LKCE ENGINEERING AND CONTRACTING DIVISION

DATE: 2002-01-16 KOSMAK GEPR. 3

DATE: 2002-01-16 STEGER 3

DATE: 2001-07-31 DRESSSEL 0

ITEM-NO.: 10-P-3371 A/B

9970089248

6-N27-503921/1-2

F 103583

BLATT 1 VON 4