

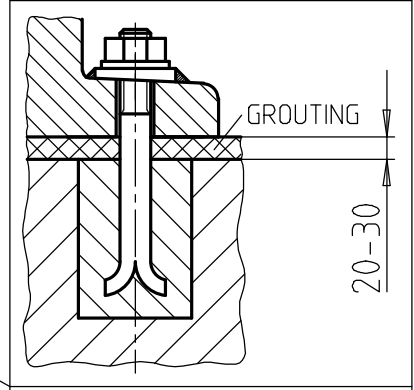
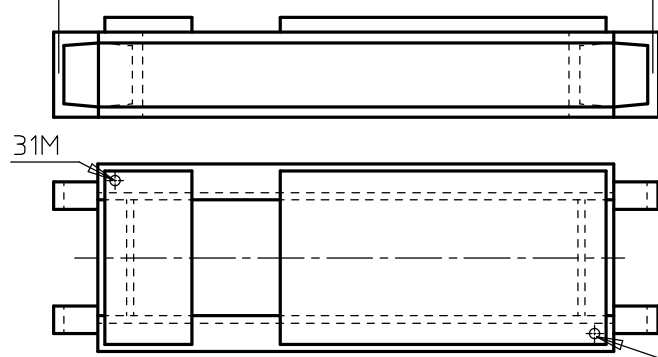
1) GRUNDPLATTENBEFESTIGUNG ALTERNATIV IM BEREICH DER GEHAEUSEFUESSE MOEGLICH. GEGEBENENFALLS RUECKSPRACHE
BASEPLATES MAY ALSO BE ATTACHED IN THE REGION OF THE CASING FEET. REFER TO KSB IS NECESSARY

MASSE IN MM / DIMENSIONS IN MM

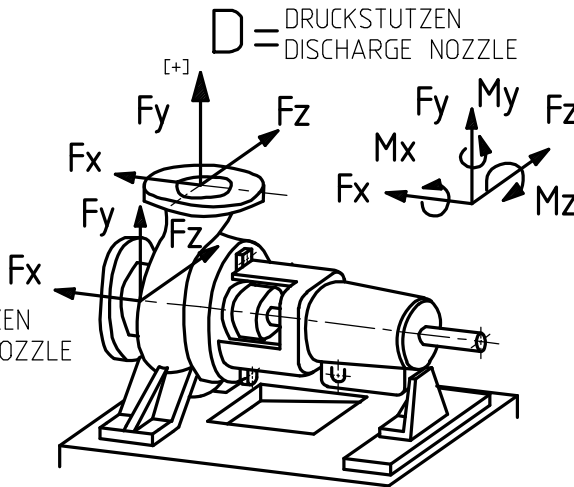
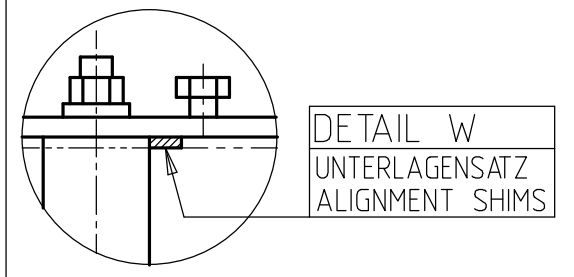
LEITUNGEN SPANNUNGSFREI ANSCHLIESSEN!
ZULAESSIGE MASSABWEICHUNGEN FUER:
ACHSHOEHEN FUER MASCHINEN
ANSCHLUSSMASSE FUER PUMPEN
MASSE OHNE TOLERANZANGABE - GRAUGUSSTEILE
MASSE OHNE TOLERANZANGABE - SCHWEISSTEILE
ALLGEMEINTOLERANZEN FUER BEARBEITETE TEILE

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

GRUNDPLATTE MIT 4 HEBEOESEN
BASEPLATE WITH 4 LIFTING EYES



FUNDAMENTSCHRAUBEN
FOUNDATION BOLTS
4 M20X250-DIN529 FORM C



TEMP.= 85 °C
DIE ANGABEN GELTEN FUER STATISCHE ROHRLICHTUNGSLASTEN.
BEI UEBERSCHREITUNG IST NACHPRUEFUNG ERFORDERLICH.
DATA GIVEN BELOW ARE ONLY VALID FOR STATIC PIPING LOADS.
IF VALUES ARE EXCEEDED CHECK IS NECESSARY.

KRAEFTE, MOMENTE / FORCES, MOMENTS

| KRAEFTE FORCES (N) | SAUGSTUTZEN SUCTION NOZZLE | | | | DRUCKSTUTZEN DISCHARGE NOZZLE | | | | |
|----------------------------|-------------------------------|------|------|------|----------------------------------|--------|--------|-----|------|
| | Fx | Fy | Fz | Fres | Fx | Fy (+) | Fy (-) | Fz | Fres |
| 1350 | 900 | 1100 | 1400 | 700 | 450 | 850 | 550 | 900 | |
| MOMENTE MOMENTS (Nm) | Mx | My | Mz | | Mx | My | Mz | | |
| | 700 | 550 | 350 | | 450 | 350 | 250 | | |

DIE KRAEFTE UND MOMENTE WURDEN IN ANLEHNUNG AN ISO 5199 FESTGELEGT.
THE FORCES AND MOMENTS WERE DEFINED FOLLOWING ISO 5199.

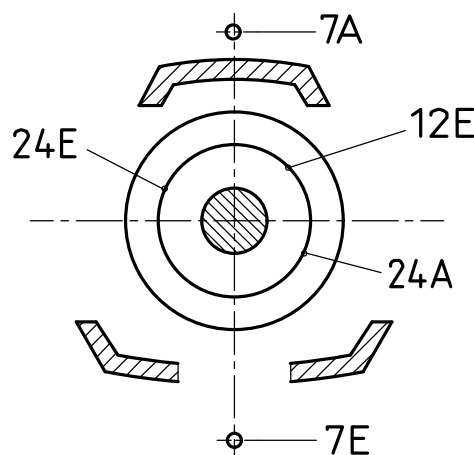
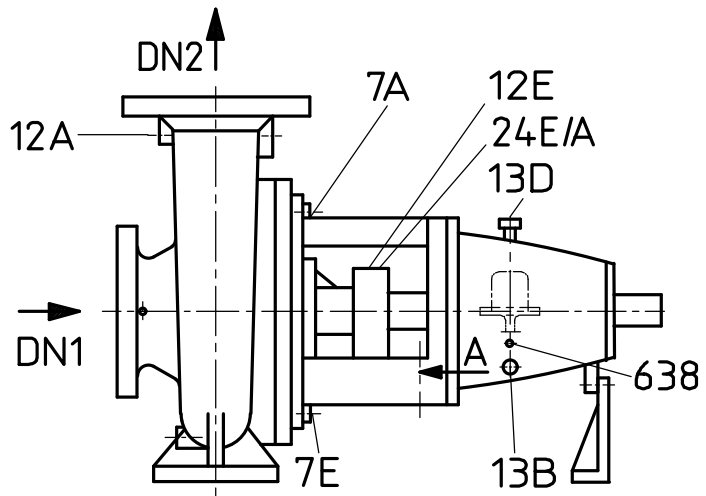
| | | |
|---------------------------------|---|--|
| GLEITRINGDICHTUNG MECH. SEAL | BURGMANN ISO-DESIGN TYP. CARTEX-TN/33-00 | API SEAL CODE: BSTIN API PIPING PLAN: 11/61 |
|---------------------------------|---|--|

GROESSEN / SIZES

AS-BUILT REV 3

| | | | | | | | | |
|---|-----------------|---|---|--------------------|-----|--|--|---|
| 31M | 2X M6 | ERDUNGSANSCHLUSS - EARTHING CONNECTION | - | X | - | - | - | - |
| 24E/24A | NPT 1/4 | QUENCHFLUESSIGKEIT EIN/AUS - QUENCH LIQUID INLET/OUTLET | X | - | - | - | - | - |
| 12A | G 1/4 | ZIRKULATIONSFL. AUS - CIRCULATION LIQUID OUTLET | - | - | X | - | - | - |
| 12E | NPT 1/4 | ZIRKULATIONSFL. EIN - CIRCULATION LIQUID INLET | - | - | X | - | - | - |
| 7E/7A | G 3/8 | KUEHLFLUESSIGKEIT EIN/AUS - COOLING LIQUID INLET/OUTLET | X | - | - | - | - | - |
| 6B | NPS1/2" | GEHAEUSEABLASS - CASING DRAIN | BLINDFLANGE | X | - | - | - | - |
| 8B | Rp 1 | LECKABLASS GRUNDPLATTE - LEAKAGE DRAIN BASEPLATE | - | X | - | - | - | - |
| 13B | G 1/4 | OELABLASS - OIL DRAIN | X | - | - | - | - | - |
| 13D | Ø 20 | ENTLUEFTUNGSSTOPFEN - VENT PLUG | X | - | - | - | - | - |
| 638 | R 1/4 | OELSTANDSREGLER - 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. L/MIN | ERF. DRUCK/ PRESSURE REQU. BAR | MAX. DRUCK/ PRESSURE MAX. BAR |
| GEWINDE NACH DIN ISO 228, TEIL 1 UND ISO 7/1 (ENTSPRICHT DIN 2999 TEIL 1) / THREAD ACC. TO DIN ISO 228, PART 1 AND ISO 7/1 (CONFORMING TO DIN 2999, PART 1) | | | | | | | | |

ANSCHLUESSE / CONNECTIONS DIE AUSFUEHRUNG DES AUFTRAGES IST DURCH X GEKENNZEICHNET / THE EXECUTION OF THE ORDER IS MARKED BY X



Ansicht A
View A

2) NUR GEBOHRT NACH / ONLY DRILLED ACC. TO

| | |
|-----|----------------------------------|
| 6B | ASME B16.5 CL.150RF NPS1/2" |
| DN2 | ASME B16.5 CL.150RF NPS1-1/2" 2) |
| DN1 | ASME B16.5 CL.150RF NPS2" 2) |

| | |
|-------------------------|-----------------------|
| ANSCHLUSS CONNECTION | AUSFUEHRUNG DESIGN |
|-------------------------|-----------------------|

FLANSCH / FLANGES

| | |
|--|--|
| GRUNDPLATTENGROESSE BASEPLATE SIZE | ZN24259-6S |
| MOTORGROESSE MOTOR SIZE | LOHER IEC-132S 5.5kW |
| KUPPLUNGSTYP/GROESSE COUPLING TYPE/SIZE | METASTREAM FLEX-METAL TSKS-0013-0378-1000 |

GROESSEN / SIZES

| | |
|-------------------------|-----|
| PUMPE - PUMP | 48 |
| GRUNDPLATTE - BASEPLATE | 128 |
| KUPPLUNG - COUPLING | 10 |
| ANTRIEB - DRIVE | 53 |
| - | - |
| - | - |
| GESAMT - TOTAL | 239 |
| GEWICHTE / WEIGHTS | KG |

| | | | | | |
|--|------------|--------------|-------------------------|----------|-------|
| - | - | - | - | - | - |
| 3 | 2007-05-08 | FINAL | DASCHNER | DASCHNER | HEINR |
| 2 | 2006-02-17 | FOR FINAL | DRESSSEL | BOTHE | HEINR |
| 1 | 2005-11-24 | FOR APPROVAL | DRESSSEL | BOTHE | HEINR |
| 0 | 2005-08-03 | FOR APPROVAL | DRESSSEL | BOTHE | HEINR |
| REV. | DATE | DESCRIPTION | ORIG. | PREP. | CHKD. |
| SOUTH PARS GAS FIELD DEVELOPMENT- PHASES 9 & 10, ASSALUYEH-IRAN ONSHORE FACILITIES | | | | | |
| PROJECT NO.: POGC-760-81-156 | | | DOC. CLASS. SCALE: | | |
| TITLE: DIMENSIONAL OUTLINE DRAWING FRESH MEG TRANSFER PUMP | | | ITEM-NO.: 146-P-102 | | |
| DWG NO. VP-6340S-146-P102-001 | | | SHEET NO. 1 OF 1 REV. 2 | | |

| | | | | |
|---|--------------------|---------|--|------------|
| PURCHASER NO. | PO-6340S-0910-01-0 | UG | TYPE/BAUREIHE/SERIE DE CONSTR | CPK 32-200 |
| KSB ORDER NO. | 9970869420 | 5800 | | |
| ADD. POS. NO. | | | | |
| ALTERATION/INDEX/NO AENDERUNG/INDEX/ANZ. MODIF/INDEX/INOM | 04 | | | |
| WELD/SCHWEIS. | | | | |
| CALCUL./BERECHN. | | | | |
| QUALITY/QUALIT. | | | | |
| APPR./GEPR. | 16.10.2007 | SEIBMAN | | |
| PREPARE./BEARB. | 16.10.2007 | DRESMAT | | |
| DATE/DATUM | | NAME/NO | | |
| DENOMINATION/BENENNUNG/DESIGNATION | | | INSTALLATION PLAN AUFSTELLUNGSPLAN PLAN D'INSTALLATION | |
| NO. NR. | | | F109435 | |
| COPYR ISO 16016 SCHUTZVERM ISO 16016 PROT ISO 16016 | | | CDI 001 | |
| REPL. FORIERS.FUER/REPL. L.N. ORIG./RENTSTAUS/RENT A PART | | | 1 | |
| SCALE MASSSTAB ECHELLE | | | - : - | |
| SHT-NR/BLATT No FEUILLE | | | 1 | |
| OF / VON NOMBRE F. | | | 1 | |