

ROMANIAN RESEARCH AND DESIGN INSTITUTE FOR
OIL REFINING AND PETROCHEMICAL INDUSTRIES

18 DILIGENȚEI STREET (I.C.P.R.P.) PLOIESTI - ROMANIA

Job No 6278/50
No SP.101-0501 0361
Rev. No 2

CENTRIFUGAL PUMP DATA SHEET

APPLICABLE TO: PROPOSALS PURCHASE AS BUILT
NOTE: INDICATES INFORMATION TO BE COMPLETED BY PURCHASER,
 BY MANUFACTURER

Sheet 14 of 16
By *[Signature]* Approved
Date 28-05-1974

ITEM No. 101-P11

FOR INDUSTRIAL EXPORT ROMANIA-N.R.L. PAKISTAN SITE KARACHI - WEST PAKISTAN
UNIT ATMOSPHERIC DISTILLATION AND ELECTRICAL DESALTING SERVICE NAPHTHA FROM 101-G3
NO PUMPS REQ'D 1 NO. MOTORS REQ'D 1 ITEM NO. 101 P11 M PROVIDED BY MTD BY
NO. TURBINES REQ'D ITEM NO. PROVIDED BY MTD BY
PUMP MFR KSB SIZE AND TYPE RPKS 50-29/T A SERIAL NO

OPERATING CONDITIONS, EACH PUMP

LIQUID NAPHTHA GPM of PT. NOR. 178 RATED 196
DISCH. PRESS., PSIG 172
PT. P. NOR. 300 MAX 380 SUCT. PRESS., PSIG MAX. 17 RATED 17
SP. GR. of PT. 0.640 DIFF. PRESS., PSI 155
VAP. PRESS. of PT. PSIA DIFF. HEAD. FT. 560
VIS of PT. CSU Cst NPSHA, FT. 10
CORR. EROS. CAUSED BY HYD. HP

PERFORMANCE

PROPOSAL CURVE NO TVU 101224
RPM 2900 NPSHR (WATER) 10 FT
EFF. 52% kW RATED 31
MAX. kW RATED IMP 41
MAX. HEAD RATED IMP 648 Ft
MIN. CONTINUOUS GPM 26
ROTATION (VIEWED FROM CPLG. END)

CONSTRUCTION

NOZZLES	SIZE	RATING	FACING	LOCATION
SUCTION	3" Δ	150 #	RF	END
DISCHARGE	2" Δ	150 #	RF	TOP

SHOP TESTS

NON WIT PERF. WIT PERF
 NON WIT HYDRO WIT HYDRO
 NPSH REQ'D. WIT NPSH
 SHOP INSPECTION
 DISMANT. & INSP AFTER TEST
 OTHER

CASE MOUNT. CENTERLINE FOOT BRACKET VERT. (TYPE)
SPLIT: AXIAL RAD; TYPE VOLUTE SGL DBL DIFFUSER
PRESS MAX. ALLOW. 569 Δ PSIG 212 Δ °F; HYDRO TEST MAX. 853 Δ PSIG
CONNECT VENT DRAIN GAGE
IMPELLER DIA. RATED 273 Δ MAX. 320 Δ TYPE, CLOSED Δ
MOUNT: BETWEEN BRGS OVERHUNG
BEARINGS TYPE RADIAL N311/C3 Δ THRUST 7311 BG Δ
TUBE RING OIL FLOOD OIL MIST FLINGER PRESSURE CONSTANT LEVEL OILS
COUPLING: MFR TACKE Δ MODEL RAZ 60/180 Δ
DRIVER HALF MTD BY: PUMP MFR DRIVER MFR PURCHASER
PACKING: MFR & TYPE SIZE/NO. OF RINGS
MECH. SEAL: MFR & MODEL CRANE 109B Δ API CLASS. CODE BSTGK Δ
 MFR CODE OR 171 Δ

MATERIALS

PUMP, CASE/TRIM CLASS S3
CASE: GS-C25 Δ
IMPELER: 944G Δ
SHAFT: 14021 Δ
WEAR RINGS 14027/YG 435 Δ
BASEPLATE:

AUXILIARY PIPING

CW PIPE PLAN F CU, S.S., TUBING, PIPE
 TOTAL COOLING WATER REQ'D, GPM 0.6-1.0 m³/h Δ SIGHT FL. REQ'D
 PACKING COOLING INJECTION REQ'D: TOTAL GPM PSIG
 SEAL FLUSH PIPE PLAN II C.S. S.S. TUBING PIPE
 EXTERNAL SEAL FLUSH FLUID GPM PSIG
 AUXILIARY SEAL PLAN C.S. S.S. TUBING PIPE
 AUX SEAL QUENCH FLUID

VERTICAL PUMPS

PIT OR SUMP DEPTH
MIN. SUBMERGENCE REQ'D
COLUMN PIPE: FLANGED THREADED
LINE SHAFT: OPEN ENCLOSED
BRGS: BOWL LINE SHAFT
BRG. LUBE: WATER OIL GREASE
FLOAT & ROD: C.S. S.S. BRZ ON
FLOAT SWITCH
PUMP THRUST, LB UP DOWN

MOTOR DRIVER

Δ (39KW) RPM 3000 Δ FRAME VOLTS/PHASE/CYCLES 380/3/50
MFR BEARINGS LUBE
TYPE INSUL B FULL LOAD AMPS
ENC (Ex) d2 G4 * TEMP RISE, C LOCKED ROTOR AMPS
 V/S V/S VERT THRUST CAP, LB

APPROX. WT, PUMP & BASE 835 Kg
MOTOR 618 Δ TURBINE

API STANDARD 610 GOVERNS UNLESS OTHERWISE NOTED.
*) by VDE 0171 - AMBIENT TEMP. OF ELEC. MOTOR IS 131°F (+55°C)

19.07.76 REVISED AS PER CONTRACT
PCISSUED 28.05.94