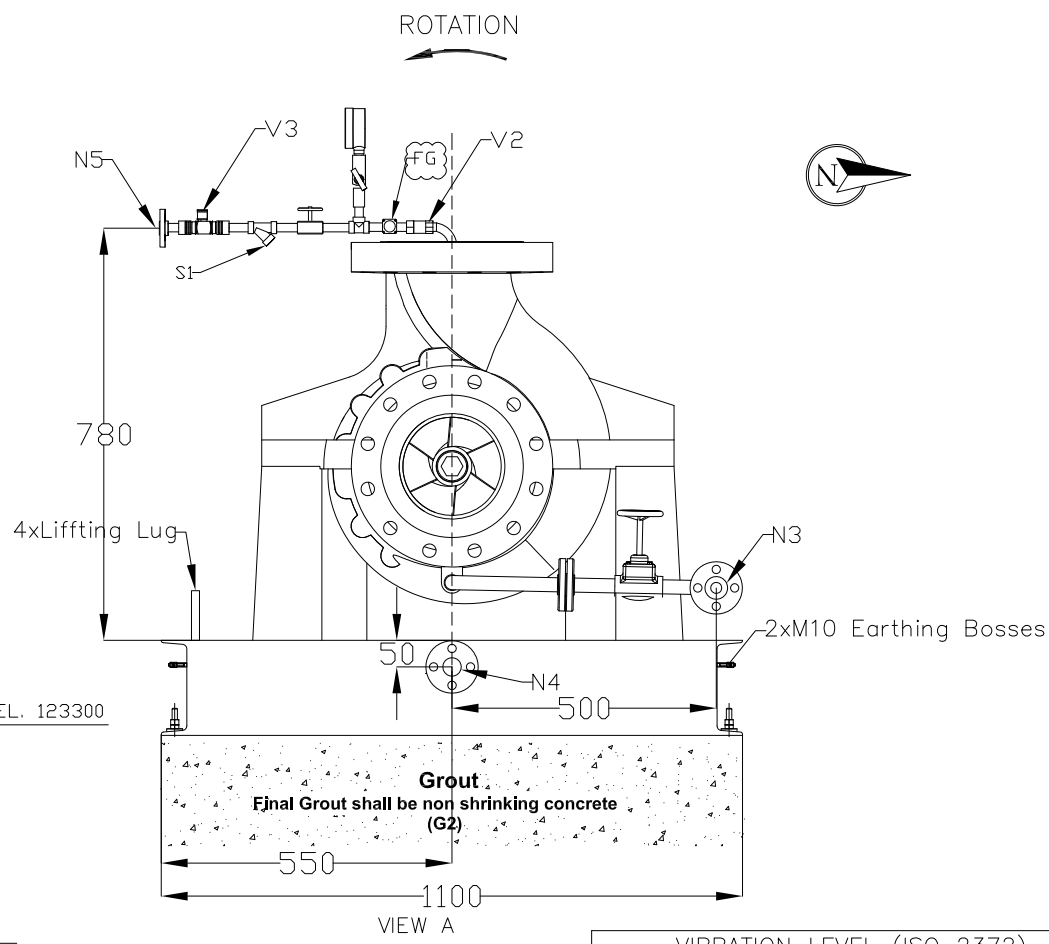


POS.	Q.	NPS	CONN. TYPE	DESCRIPTION	Ø (mm)	G (mm)	No. of holes	hole Ø (mm)	raised R (mm)	face S (mm)
N1	1	8"	ASME B16.5 # 300 RF	Suction Flange	381	330.2	12	25.4	269.9	1.6
N2	1	8"	ASME B16.5 # 300 RF	Discharge Flange	381	330.2	12	25.4	269.9	1.6
N3	1	3/4"	ASME B16.5 # 300 RF	Pump Drain Flange	117	82.6	4	19	42.9	1.6
N4	1	2"	ASME B16.5 # 150 RF	Base Plate Drain Flange	152	120.6	4	19	92.1	1.6
N5	1	1/2"	ASME B16.5 # 300 RF	Seal Sys. Flange from plant water (PWA)	156	114.3	4	22.2	73	1.6
V1	1	3/4"	Gate Valve # 800	Pump Drain Valve(By Vendor)						
V2	1	1/2"	#800 SS-316	Check Valve(By Vendor)						
V3	1	1/2"	#800 SS-316	Ball Valve(By Vendor)						
S1	1	1/2"	#800 SS-316	strainer(By Vendor)						
FG	1	1/2"	Flanged ANSI # 150RF	Flow Indicator(By Vendor)						
CLO	1		CLO	Constant level oiler(By Vendor)						



VIBRATION LEVEL (ISO 2372)
Alarm : $V(RMS) > 3 \text{ mm/sec}$
Trip : $V(RMS) > 4.5 \text{ mm/sec}$

Max.MISSALIGNMENT

AXIAL	1.5 (mm)	RADIAL	1.2 (mm)	ANGULAR	0.5 (degree)
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PUMP NOZZLES: ASME B16.5

Flange Raised Face Roughness 125~250 AARH

ELECTRICAL MOTOR

MODEL :	Schorch	PHASE :	3
FRAME :	180	VOLTAGE :	400
KW :	22	Hz :	50
RPM :	1500		

Pump Type: IOH2-200-315
Sealing System Plan: 32

COUPLING & Coupling Guard
COUPLING MANUFACTURER: IIP Group
MODEL : Flexible Spacer Type

CENTER OF GRAVITY

	(mm)
DRIVER C.o.G	X 29
TOTAL C.o.G	Y 526
PUMP C.o.G	Z 560
	X 0
DRIVER	Y 1731
	Z 508
	X 0
BASE	Y 1267
	Z 136
	X 8.5
TOTAL	Y 1103
	Z 304

REFERENCE DOCUMENTS

Doc. No.	Doc. No.
VP-40-000-MA-0011-0034	VP-40-000-MA-0011-0106
VP-40-000-MA-0011-0178	VP-40-000-MA-0011-0250
VP-40-000-MA-0011-0142	VP-40-000-MA-0011-0286

NOTE

1-All Dimension are mm.
2-Coupling guard is Aluminium.
3-Material of base plate is st37 & bolt A193 Gr B7 and nut A194 Gr 2H.
4-Maintenance Area is 2m from Motor end and 1m from other sides.
5-All Dimension Clearances are according to ISO 286-1.

-Bolt material shall conform to specification ASTM A193 Grade B7 (anchor bolts shall be partly hot dip galvanized in thread length plus 100mm length embedded into concrete).
-Anchor bolt and nut will be supplied by IIP.
-All nuts&washers shall be hot dip galvanized according to ASTM A153.
-Grout thickness: 30mm

BASE PLATE ANCHOR BOLTS

Thickness=25mm

M10 EARTHING BOSS, LEVELING SCREW, LIFTING LUG

NOZZLE LOADS

FORCE	N	2XAPI 610	MOMENTS	Nm	2XAPI 610			
SUCTION	Fx	Fy	Fz	Mr	Mz	Me		
DISCHARGE	7560	6220	9780	13840	7060	3520	5160	9420

FOUNDATION LOADS (approx. weight)

PUMP :	395	Kg
MOTOR :	267	Kg
BASE PLATE&SEALING SYSTEM :	600	Kg
TOTAL :	1262	Kg

Approved:
Code1: No comment and the document is released for Manufacturing.
Code2: Approved with Minor comment: Vendor shall correct, revise and resubmit the document. The document can be released for Manufacturing if changes incorporated.
Code3: Commented: Vendor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing.
Code4: Not Accepted (Rejected): Vendor shall re-work/re-design/re-specify the contents of the documents according to the comments/ reasons for rejection. All corrected documents shall be resubmitted before starting the Manufacturing process. In this case vendor shall not proceed with subsequent work until receiving code 1 or code 2 or no code from CONSULTANT / OWNER / MC. VENDOR shall resubmit the documents with the same revision within (10) working days(including transmission/mailing time) after receiving the commented documents from CONSULTANT / OWNER / MC.
No Code: No Code/ Only for "FOR INFORMATION" documents and "As-Built DWGs". Document has been submitted for CONSULTANT / OWNER / MC's information(FI) consistency, completeness and correctness of documents content is in VENDOR/EPC contractor responsibility.

Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.

EIED
DATE : 5.2.2022
DEPT. : MA
Signature : S.Razani

CV	PI	EL	IN	ME	MA
ST	AR	PR	SA	HV	TL

04 23Jan.2022 R Issue for Approval A.K M.B A.N GH.P
03 29Sep.2021 R Issue for Approval A.K M.B A.N GH.P
02 14Sep.2021 R Issue for Approval A.K S.G A.N GH.P
01 23Aug.2021 R Issue for Approval A.K S.G A.N GH.P
00 24July.2021 F Issue for Approval A.K S.G A.N GH.P

REV. DATE STATUS PURPOSE OF ISSUE PREP. CHKD. APPD. AUTH.

EIED Soroush Mahestan Asaloyeh Company HDPE Project

LLP GROUP P.O DESCRIPTION: Centrifugal pumps

Contract No. SMAC-19-19/Box P.O No. KP-40-000-PS-MA-PO-0011 SCALE: None

DRAWING TITLE:
General Arrangement Drawing for 40-P-224

DRAWING NO.
VP-40-000-MA-0011-0070

REV.
04

SHEET No.
1 OF 1

SIZE
A3