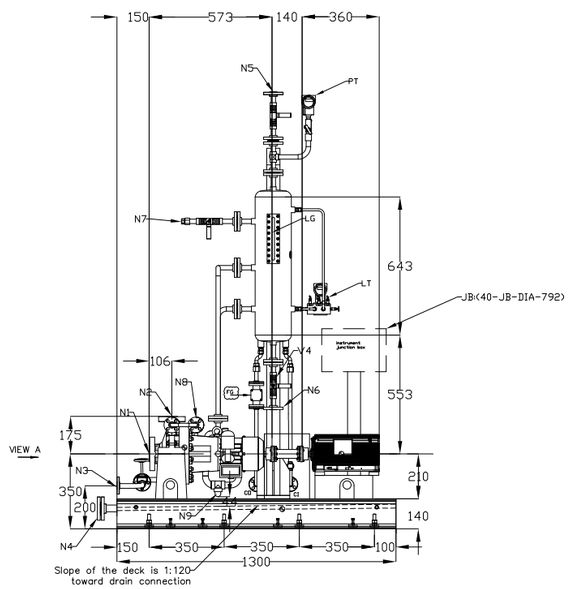
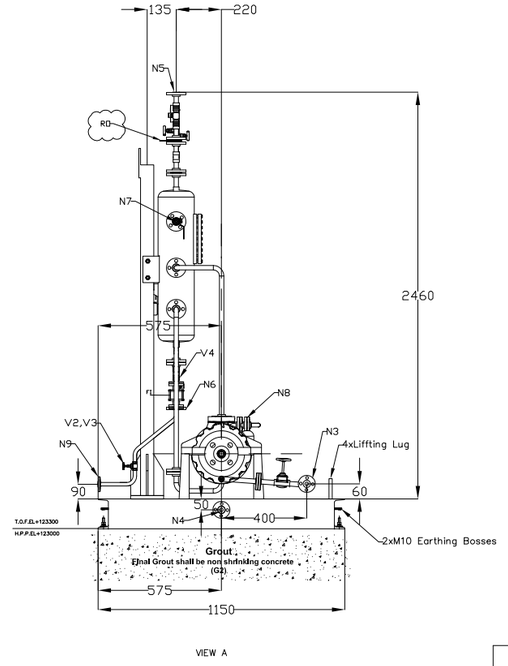
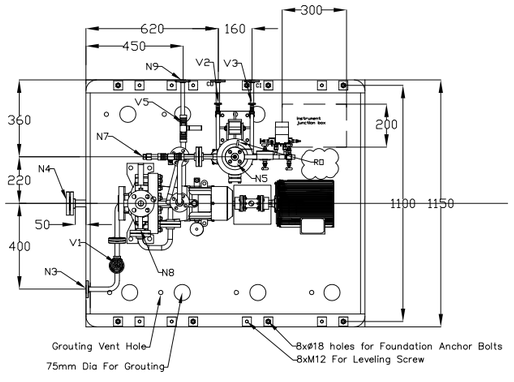






POS.	Q.	NPS	CONN. TYPE	DESCRIPTION	O (mm)	G (mm)	No.of holes	hole Ø (mm)	raised R (mm)	face S (mm)
N1	1	11/2"	ASME B16.5 # 300 RF	Suction Flange	156	114.6	4	22.2	73	1.6
N2	1	1"	ASME B16.5 # 300 RF	Discharge Flange	124	88.9	4	19	50.8	1.6
N3	1	1/2"	ASME B16.5 # 300 RF	Pump Drain Flange	95	66.7	4	15.8	34.9	1.6
N4	1	2"	ASME B16.5 # 150 RF	Base Plate Drain Pipe	152	120.6	4	19	92.1	1.6
N5	1	1/2"	ASME B16.5 # 300 RF	Sealing System Vent Flange	95	66.7	4	15.8	34.9	1.6
N6	1	1/2"	ASME B16.5# 300 RF	Reservoir Drain Flange	95	66.7	4	15.8	34.9	1.6
N7	1	1/2"		Quick Coupler For nitrogen filling						
N8	1	1/2"	ASME B16.5 # 300 RF	Sealing System Flange (By Vendor)	95	66.7	4	15.8	34.9	1.6
N9	1	1/2"	ASME B16.5 # 300 RF	Sealing system Drain Flange	95	66.7	4	15.8	34.9	1.6
CI	1	1/2"	ASME B16.5# 150 RF	Cooling Water Inlet	89	60.3	4	15.8	34.9	1.6
CO	1	1/2"	ASME B16.5# 150 RF	Cooling Water Outlet	89	60.3	4	15.8	34.9	1.6
CLO	1		CLO	Constant level oiler(By Vendor)						
FG	1	1/2"	Flanged ANSI # 150RF	Flow Indicator(By Vendor)						
V1	1	1/2"	Gate Valve # 800	Pump Drain Valve(By Vendor)						
V2	1	1/2"	Globe valve #800	Cooling Water Outlet valve(By Vendor)						
V3	1	1/2"	Globe valve #800	Cooling Water Inlet valve(By Vendor)						
V4	1	1/2"	Ball valve #800	Heat Exchanger Drain valve(By Vendor)						
V5	1	1/2"	Ball valve #800	Sealing system Drain valve(By Vendor)						

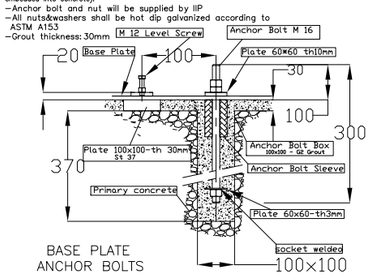
Instrument Number	
PT	40-PT-758
LT	40-LT-754
FG	40-FG-758
RO	40-RO-758A/B
LG	40-LG-758

REFERENCE DOCUMENTS	DOC. NO.
Pump Data Sheet and Performance Curve for 40-P-752	VP-40-000-MA-0011-0045
Pump cross sectional drawing and Part list for 40-P-752	VP-40-000-MA-0011-0117
Motor data sheets for 40-P-752	VP-40-000-MA-0011-0189
Motor outline drawing for 40-P-752	VP-40-000-MA-0011-0261
Coupling Drawing for 40-P-752	VP-40-000-MA-0011-0153
Pump P&ID for 40-P-752	VP-40-000-MA-0011-0297

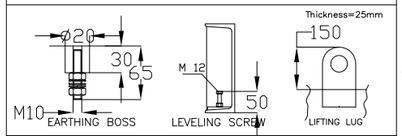
NOTE

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



EARTHING BOSS
LEVELING SCREW
LIFTING LUG

NOZZLE LOADS

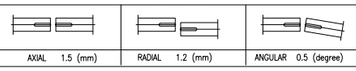
	FORCE N				MOMENTS Nm			
	2XAPI 610				2XAPI 610			
	Fx	Fy	Fz	FR	Mx	My	Mz	MR
SUCTION :	1780	1420	1160	2560	920	460	700	1240
DISCHARGE :	1420	1160	1780	2560	920	460	700	1240

FOUNDATION LOADS (approx. weight)

PUMP :	76	Kg
MOTOR :	34	Kg
BASE PLATE&SEALING SYSTEM :	350	Kg
TOTAL :	460	Kg

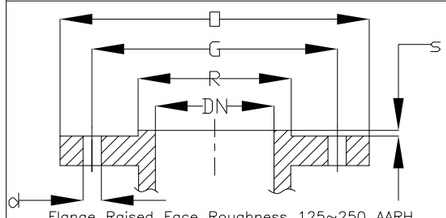
VIBRATION LEVEL (ISO 2372)
Alarm : V(RMS) > 3 mm/sec
Trip : V(RMS) > 4.5 mm/sec

Max.MISSALIGNMENT



AXIAL 1.5 (mm) | RADIAL 1.2 (mm) | ANGULAR 0.5 (degree)

PUMP NOZZLES: ASME B16.5



Flange Raised Face Roughness 125~250 AARH

ELECTRICAL MOTOR

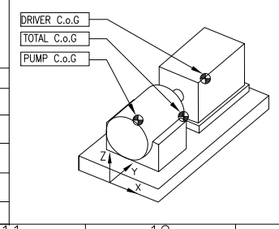
MODEL :	Schorch	PHASE :	3
FRAME :	80	VOLTAGE :	400
KW :	1.1	Hz :	50
RPM :	3000		

Pump Type: IOH2-25-160S1

Sealing System Plan: 11/52

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

CENTER OF GRAVITY



		(mm)
PUMP	X	19
	Y	315
	Z	379
DRIVER	X	0
	Y	980
	Z	350
BASE	X	0
	Y	771
	Z	92
TOTAL	X	1.8
	Y	1033
	Z	286

Code1	☑ *Approved:* 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.

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EIED
DATE : 24.2.2022
DEPT. : MA
Signature : S.Razani

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REV.	DATE	STATUS	PURPOSE OF ISSUE	PREP.	CHKD.	APPD.	AUTH.
04	12.Feb.2022	R	Issue for Approval	A.K	M.B	A.N	GH.P
03	02.Nov.2021	R	Issue for Approval	A.K	M.B	A.N	GH.P
02	20.Sep.2021	R	Issue for Approval	A.K	M.M	A.N	GH.P
01	31.Aug.2021	R	Issue for Approval	A.K	S.G	A.N	GH.P
00	09.August.2021	F	Issue for Approval	S.G	S.G	A.N	GH.P

EIED
Soroush Mahestan Asaloyeh Company
HDPE Project

LLP GROUP
IIP SOROUSH PARS co.
Contract No. SMAC-H-19/804
P.O DESCRIPTION: Centrifugal pumps
P.O No. KP-40-000-PS-MA-PO-0011
SCALE: None

DRAWING TITLE:
General Arrangement Drawing for 40-P-752

DRAWING NO. VP-40-000-MA-0011-0081
REV. 04
SHEET No. 1 OF 1
SIZE A3

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