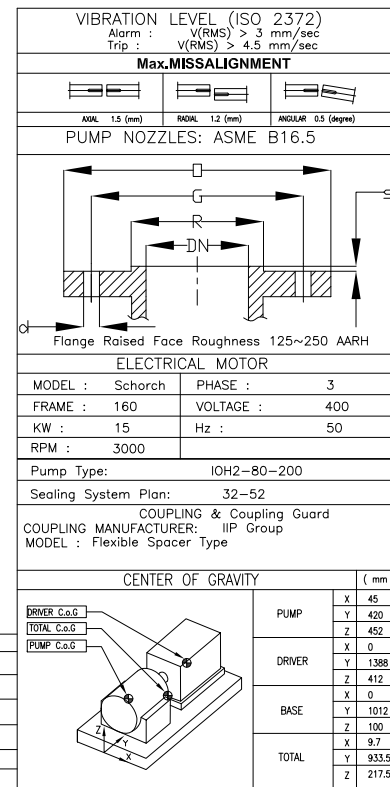


POS.	Q.	NPS	CONN. TYPE	DESCRIPTION	O (mm)	G (mm)	No. of holes	hole Ø (mm)	raised R (mm)	face S (mm)
F	N1	1	4" ASME B16.5 # 300 RF	Suction Flange	254	200	8	22.2	157.2	1.6
	N2	1	3" ASME B16.5 # 300 RF	Discharge Flange	210	168.3	8	22.2	127	1.6
	N3	1	3/4" ASME B16.5 # 300 RF	Pump Drain Flange	117	82.6	4	19	42.9	1.6
	N4	1	2" ASME B16.5 # 150 RF	Base Plate Drain Blind Flange	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 (form HHX service)	95	66.7	4	15.8	34.9	1.6
G	N9	1	1/2" ASME B16.5 # 300 RF	Sealing system Drain Blind 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	3/4" 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)						
H	V5	1	1/2" Ball valve #800	Sealing system Drain valve(By Vendor)						
	V6	1	1/2" Ball valve #800	Sealing system Vent valve(By Vendor)						
	V7	1	1/2" Ball valve #800	Sealing system valve(By Vendor)						
	S1	1	1/2" #800 SS-316	strainer						

Instrument Number	
PT	40-PT-708A/B
LT	40-LT-705A/B
FG	40-FG-708A/B/C/D
RO	40-RO-708A/B
PG	40-PG-705A/B
LG	40-LG-708A/B



REFERENCE DOCUMENTS		DOC. NO.	
Pump Design and Performance Curve 40-P-721A/B		40-000-MA-0011-0044	
Pump material specification and list for 40-P-721A/B		VP-40-000-MA-0011-0116	
Quality control for 40-P-721A/B		VP-40-000-MA-0011-0152	
Motor data sheets for 40-P-721A/B		VP-40-000-MA-0011-0188	
Motor submittal sheets for 40-P-721A/B		VP-40-000-MA-0011-0260	
Pump P&ID for 40-P-721A/B		VP-40-000-MA-0011-0286	

NOTE
 1-All dimension are mm.
 2-As per Nomenclature.
 3-Internal dimension of inlet pipe is A375 & inlet A193 or B7 and inlet A194 or D4.
 4-Submittal for 40-P-721A/B and 1% from other side.
 5-All dimension clearances are according to ISO 286-1.

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

Diagram showing the general arrangement of the pump assembly. Key components labeled include: Base Plate, Anchor Bolt, Anchor Bolt Sleeve, Primary connection, EARTHING BOSS, LEVELING SCREW, and LIFTING LUG. Dimensions and specifications are provided for various parts, including plate sizes (e.g., 100x100-10-30mm), hole diameters (e.g., 100, 150, 200), and thicknesses (e.g., 150, 300, 100x100).

NOZZLE LOADS

FORCE		MOMENTS					
	N	Fx	Fz	Fx	Fz	Mx	Mz
SUCTION :	3560	2840	2320	5120	2660	1360	2000
DISCHARGE :	2140	1760	2660	3660	1900	940	1440

FOUNDATION LOADS (approx. weight)

PUMP :	93
MOTOR :	184
BASE PLATE/SCALING SYSTEM :	580
TOTAL :	957

Code	Approved
Code1	No comment and the document is released for Manufacturing.
Code2	Approved with Minor comment: Vendor shall correct, review and resubmit the document. The document can be released for Manufacturing if changes incorporated.
Code3	Commented: Vendor shall correct, review and resubmit the document by the date specified. The document shall be released under the Status of "To Revisited Issue". All corrected documents should be submitted before starting the Manufacturing.
Code4	Not Accepted (Re-design): Vendor shall re-work/re-design/re-specify the contents of the documents according to the consultant's reasons for rejection. All corrected documents to be submitted before starting the Manufacturing process. In its case vendor did not present all important test will sending only 1 or sub 1 or sub 2 or sub 3 with them CONSULTANT / OWNER / (As KVOB) and resubmit the documents with the same review including (10) working days (including transportation/traveling time) after receiving the comments documents from CONSULTANT / OWNER / & C.
No Code	No Code Only "For SUB INFORMATION" documents and "As-Built Drawings" documents have been submitted for CONSULTANT / OWNER / M's information? (if) consistency, completeness and correctness of documents content is a KVOB/OPC contractor responsibility.

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

EIED

DATE :
10.1.2022
MA

Signature :
S.Razani

Only for internal review

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

REV	DATE	STATUS	PURPOSE OF ISSUE	PREP.	CHKD.	APPD.	AUTH.
04	25.04.2021	R	Issue for Approval	A.K	M.B	A.N	G.H.F.
03	03.04.2021	R	Issue for Approval	A.K	M.B	A.N	G.H.F.
02	03.04.2021	R	Issue for Approval	A.K	M.M	A.N	G.H.F.
01	24.04.2021	R	Issue for Approval	A.K	S.G	A.N	G.H.F.
00	24.04.2021	F	Issue for Approval	A.K	S.G	A.N	G.H.F.

Soroush Mahestan Asatoology Company
 HDEE Project

P.O DESCRIPTION: Centrifugal pumps

Contract No: **RP-40-000-PD-MA-P0-0011** SCALE: None

DRAWING TITLE:

General Arrangement Drawing for 40-P-721A/B

DRAWING NO. **VP-40-000-MA-0011-0080**

REV. **04** SHEET NO. **A3**