



POS.	Q.	NPS	CONN. TYPE	DESCRIPTION	O (mm)	G (mm)	No. of holes	hole Ø (mm)	raised R (mm)	face S (mm)
N1	1	3"	ASME B16.5 # 300 RF	Suction Flange	210	168.3	8	22.2	127	1.6
N2	1	1 1/2"	ASME B16.5 # 300 RF	Discharge Flange	156	114.3	4	22.2	73	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 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	95	66.7	4	15.8	34.9	1.6
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
C1	1	1/2"	ASME B16.5 # 150 RF	Cooling Water Inlet	89	60.3	4	15.8	34.9	1.6
C0	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						
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						
V6	1	1/2"	Ball valve #800	Sealing system Vent valve						

Instrument Number	
PT	40-PT-719
LT	40-LT-713
FG	40-FG-719
RO	40-RO-719A/B
LG	40-LG-719

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)

PUMP NOZZLES: ASME B16.5

Flange Raised Face Roughness 125~250 AARH

ELECTRICAL MOTOR

MODEL : Schorch PHASE : 3
FRAME : 132 VOLTAGE : 400
KW : 7.5 Hz : 50
RPM : 3000

Pump Type: IOH2-40-200
Sealing System Plan: 11-52

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

CENTER OF GRAVITY

	(mm)
DRIVER C.o.G	X 36
TOTAL C.o.G	Y 375
PUMP C.o.G	Z 410
	X 0
	Y 1246
	Z 378
	X 0
	Y 911
	Z 113
	X 5.8
	Y 852.6
	Z 183.9

REFERENCE DOCUMENTS

DOC. NO.	DOC. NO.
VP-40-000-MA-0011-0037	VP-40-000-MA-0011-0109
VP-40-000-MA-0011-0181	VP-40-000-MA-0011-0253
VP-40-000-MA-0011-0145	VP-40-000-MA-0011-0289

NOTE

- 1-All dimension are mm.
- 2-Coupling guard is Aluminum.
- 3-Material of base plate is A337 & bolt A193 Gr B7 and nut A194 Gr 2H.
- 4-Support Area is 2m from Motor and 1m 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) and shall be galvanized in direct 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

NOZZLE LOADS

FORCE	N	2XAPI 610	MOMENTS	Nm	2XAPI 610
SUCTION	Fx	Fz	Mx	My	Mz
DISCHARGE	1420	1160	1780	2040	920

FOUNDATION LOADS (approx. weight)

PUMP	108	Kg
MOTOR	607	Kg
BASE PLATE&SEALING SYSTEM	500	Kg
TOTAL	695	Kg

Approval:

Code1: Approved. 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 "Re-Reviewed 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 the case vendor did not proceed with subsequent work will require 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/travel time) after receiving the commented documents from CONSULTANT / OWNER / MC.

No Code: No Code/ Only for "FOR INFORMATION" documents and "Re-Built Check". Document has been submitted for CONSULTANT / OWNER / MC's information (if) consistency, completeness and correctness of documents content is in VENDOR/EPC contractor responsibility.

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

DATE : 10.1.2022
DEPT. : MA
Signature : S.Razani

Only for internal review

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

04 27Dec.2021 R Issue for Approval A.K. M.B. A.N. G.H.P.

03 30Sep.2021 R Issue for Approval A.K. M.B. A.N. G.H.P.

02 15Sep.2021 R Issue for Approval A.K. M.M. A.N. G.H.P.

01 25Aug.2021 R Issue for Approval A.K. M.M. A.N. G.H.P.

00 09Aug.2021 F Issue for Approval A.K. M.M. A.N. G.H.P.

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

Soroush Mohestan Asaloyeh Company
HDPE Project

P.O DESCRIPTION: Centrifugal pumps

SCALE: None

DRAWING TITLE:
General Arrangement Drawing for 40-P-703

DRAWING NO. VP-40-000-MA-0011-0073 REV. SHEET No. SIZE
04 1 OF 1 A3