



to be flanged and cap

POS.	Q.	NPS	CONN. TYPE	DESCRIPTION	Ø (mm)	G (mm)	No. of holes	hole Ø (mm)	raised R (mm)	face S (mm)
N1	1	4"	ASME B16.5 # 300 RF	Suction Flange	254	200	8	22.2	157	1.6
N2	1	4"	ASME B16.5 # 300 RF	Discharge Flange	254	200	8	22.2	157	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"	11NPTF	Base Plate Drain Pipe						
V1	1	3/4"	Gate Valve # 800	Pump Drain Valve (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)

PUMP NOZZLES: ASME B16.5

G

R

DN

S

Flange Raised Face Roughness 125~250 AARH

ELECTRICAL MOTOR

MODEL : Schorch

PHASE : 3

FRAME : 160

VOLTAGE : 400

KW : 11

Hz : 50

RPM : 3000

Pump Type: IOH2-100-160

Sealing System Plan: 02

COUPLING & Coupling Guard

COUPLING MANUFACTURER: IIP Group

MODEL : Flexible Spacer Type

REFERENCE DOCUMENTS

DOC. NO.

Pump Data Sheet and Performance Curve for 40-P-761A/B

VP-40-000-MA-0011-0047

Pump cross sectional drawing and Part list for 40-P-761A/B

VP-40-000-MA-0011-0119

Motor data sheet for 40-P-761A/B

VP-40-000-MA-0011-0191

Motor outline drawing for 40-P-761A/B

VP-40-000-MA-0011-0263

Coupling drawing for 40-P-761A/B

VP-40-000-MA-0011-0155

PUMP P&ID for 40-P-761A/B

VP-40-000-MA-0011-0299

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

20

Base Plate

100

Plate 100x100-th 30mm

Primary concrete

Plate 50x60-th3mm

Anchor Bolt M 36

Anchor Bolt Box

Anchor Bolt Sleeve

Socket welded

100x100

BASE PLATE  
ANCHOR BOLTS

Ø20

30

65

M 12

50

150

Thickness=25mm

M10  
EARTHING BOSS

LEVELING SCREW

LIFTING LUG

NOZZLE LOADS

FORCE

N

2XAPI 610

Fr

Fz

Fx

2840

2320

3560

5120

5120

2660

Mx

My

Mz

1360

1360

2000

3600

3600

3600

DISCHARGE

2840

2320

3560

5120

5120

2660

1360

2000

3600

FOUNDATION LOADS (approx. weight)

PUMP : 185 Kg

MOTOR : 174 Kg

BASE PLATE&SEALING SYSTEM : 500 Kg

TOTAL : 859 Kg

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

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Vendor shall correct, revise and resubmit the document by the date specified.  
The document shall be revised under the Status of "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 : 18.10.2021

DEPT. : MA

Signature : S.Razani

Only for internal review

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09.AUG.2021

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STATUS

PURPOSE OF ISSUE

PREP.

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EIED

Soroush Mahestan Asaloyeh Company  
HDPE Project

UP GROUP

P.O DESCRIPTION: Centrifugal pumps

Contract No. 3MAC-11-19/204

P.O No. KP-40-000-PS-MA-PO-0011

SCALE: None

DRAWING TITLE:

General Arrangement Drawing for 40-P-761A/B

DRAWING NO.

VP-40-000-MA-0011-0083

REV.

SHEET No.

SIZE

02

1 OF 1

A3

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