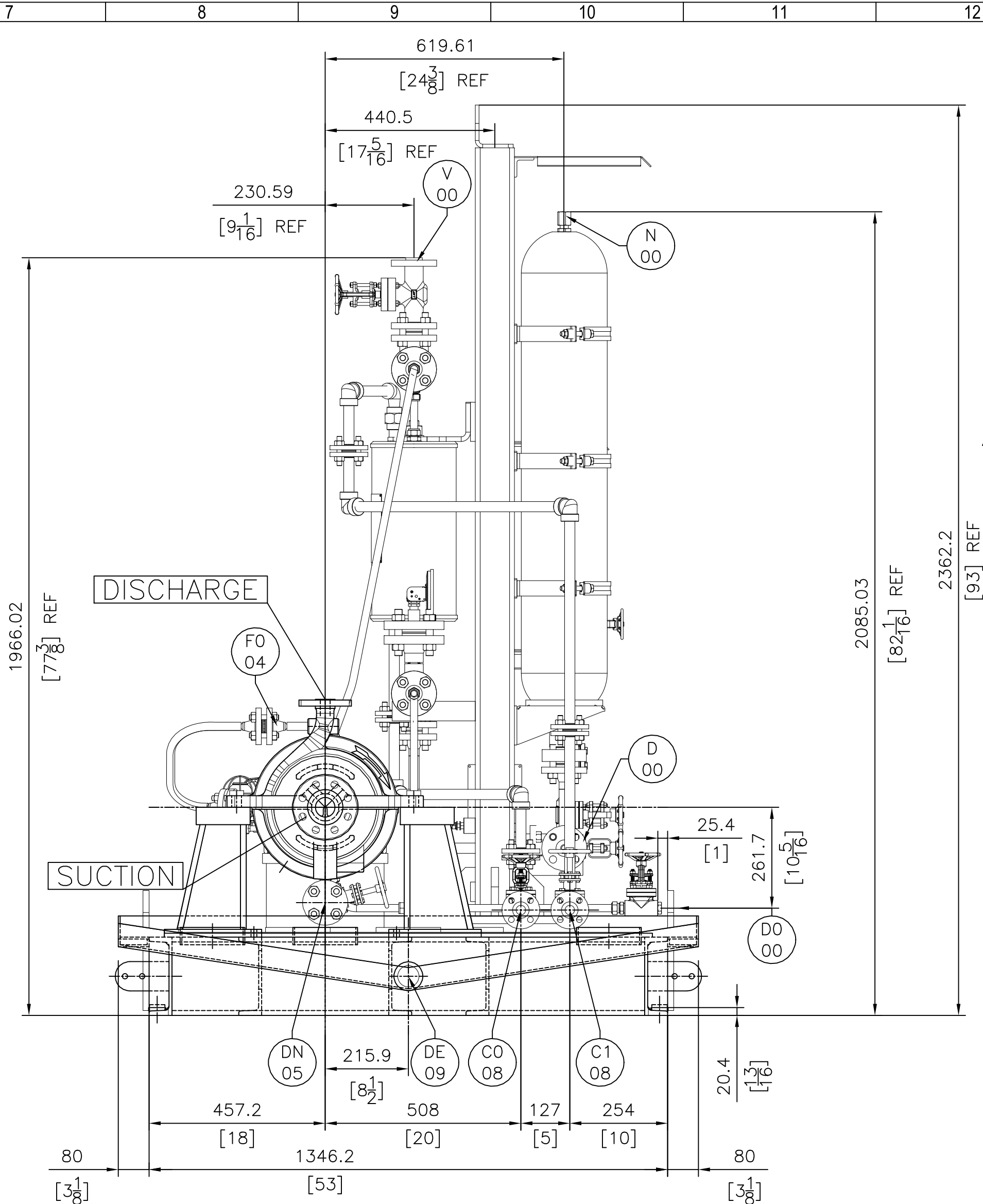
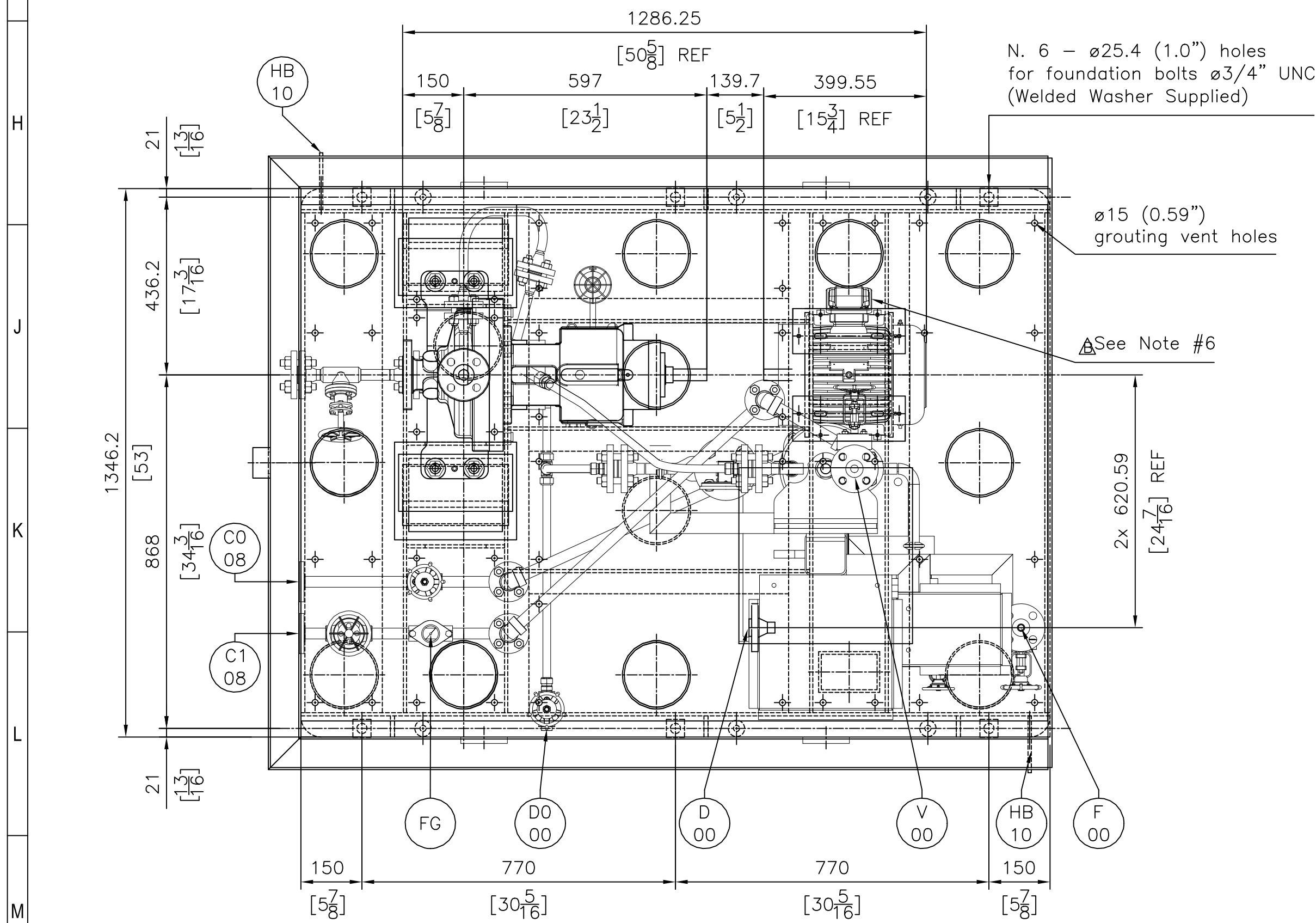
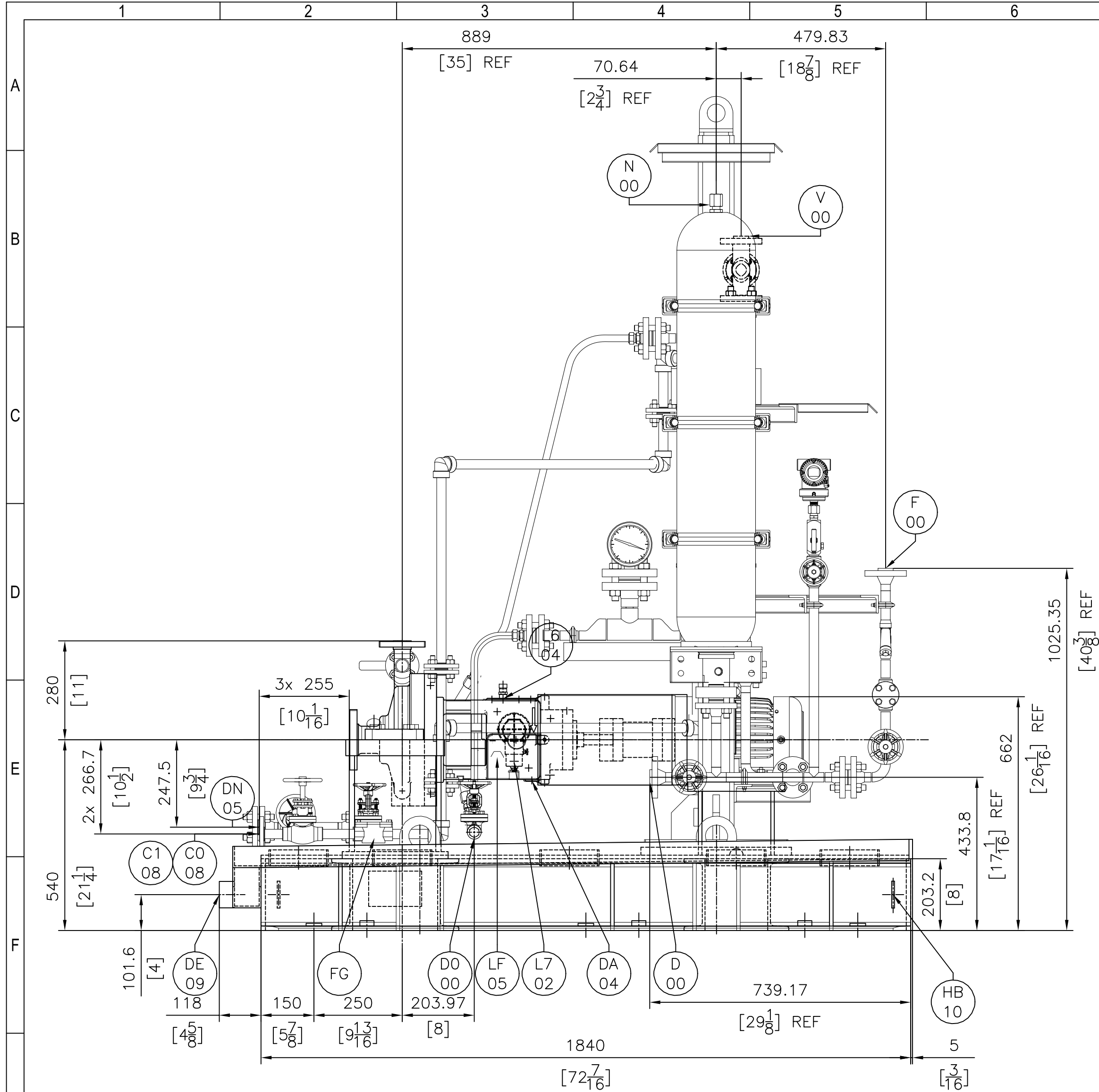
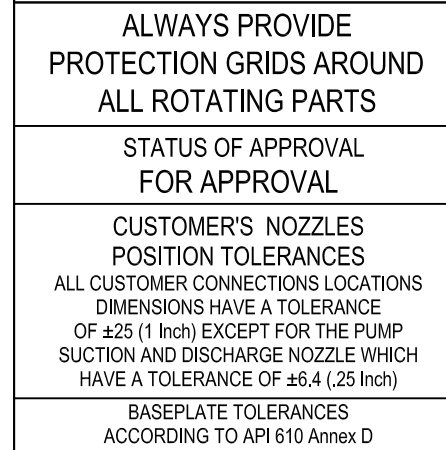
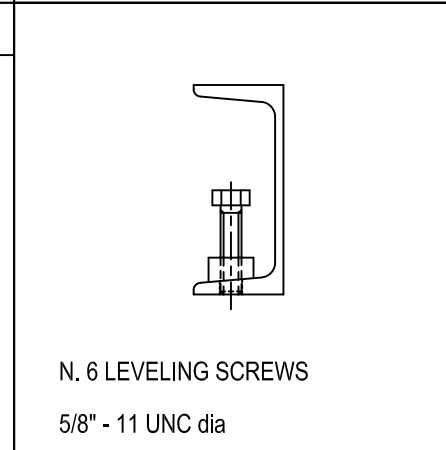
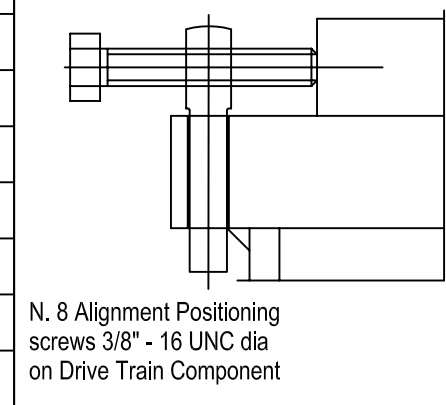
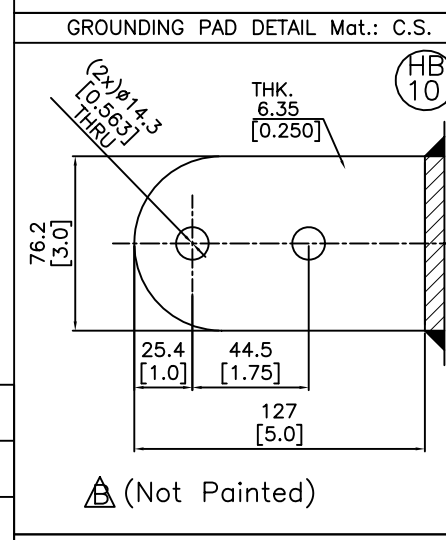
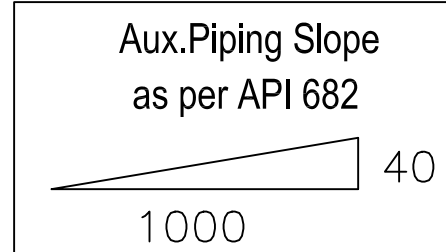
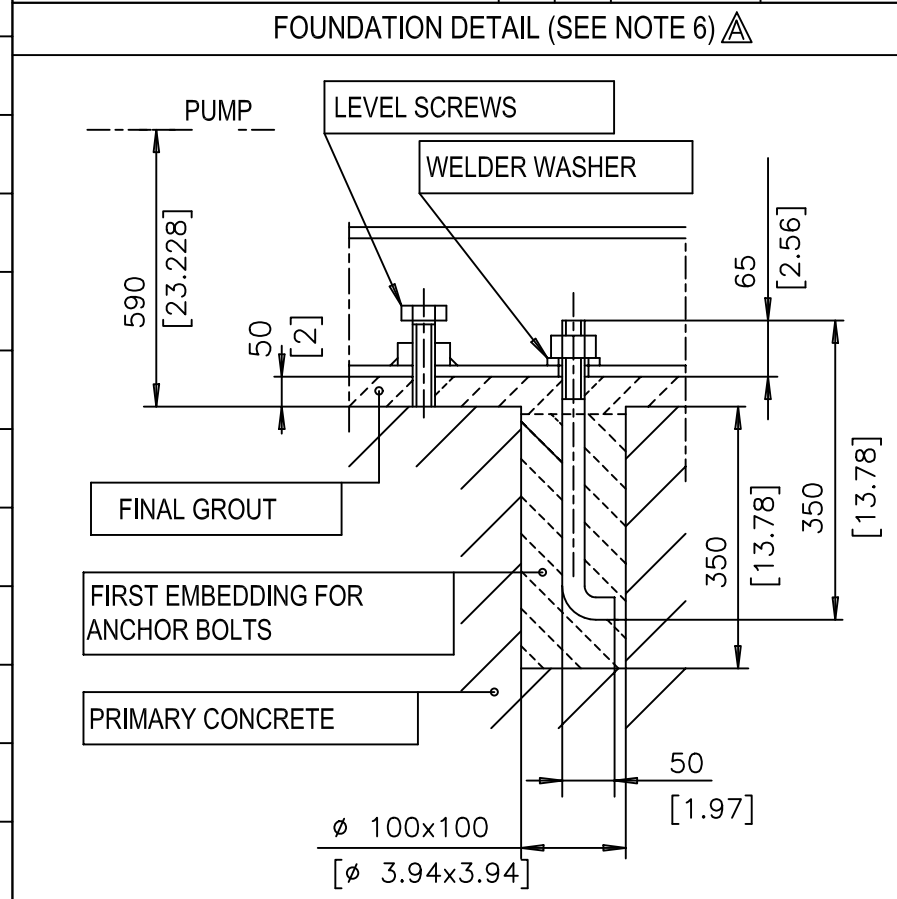




POS	Q.	CONN.TYPE	DESCRIPTION
C0 08	1	3/4" ASME CL 150 RF	Cooling Water Inlet Material Pipe Class AAAG2 (Galvanized A105 + A106 Gr. B)
C1 08	1	3/4" ASME CL 150 RF	Cooling Water Outlet Material Pipe Class AAAG2 (Galvanized A105 + A106 Gr. B)
DA 04	1	1/2" NPT	Visual Oil Inspection / Support Frame Oil Drain ESCO 3oz, Mod. HEX3X500
DE 09	1	2" NPT	Baseplate Drain
DN 05	1	3/4" ASME CL 300 RF	Casing Pump Drain with Gate Valve Butt Weld - Piped to Baseplate Edge
F0 04	1	1/2" ASME CL 300 RF	Flushing for API Plan 11 (Orifice ø0.188" installed) Butt Weld
L6 04	1	1/2" NPT	Breath & Oil Filling Hole
L7 02	1	1/4" NPT	Constant Level Oiler Trico 8oz, Mod. 30005
LF 05	1	1" NPT	Bull Eye
HB 10	2	M10	Grounding Pads on Diagonal Opposite Side at 180° (Not Painted)
DO 00	1	3/4" NPT	Barrier Inlet Drain Plugged
D 00	1	3/4" ASME CL 600 RF - BW	Drain
F 00	1	3/4" ASME CL 600 RF - BW	Filling
V 00	1	3/4" ASME CL 600 RF - BW	Vent
N 00	1	1/4" BSP	Male Nitrogen Precharge

CENTERS OF GRAVITY		(mm)	(Inch.)
PUMP	DRIVER C.o.G.	X 487	19.173
	TOTAL C.o.G.	Y -10	-0.3937
	PUMP C.o.G.	Z 570	22.441
DRIVER		X 1380.7	54.358
		Y 50	1.969
		Z 540	21.26
TOTAL		X 1094	43.071
		Y 3	0.118
		Z 334	13.15



26-MAY-2023

G.GUERRERO

G.GUERRERO

E.PEREZ

06-OCT-2022

DESC: AS BUILT

15-AUG-2022

DESC: UPDATED BY CUSTOMER COMMENTS

10-MAR-2022

DESC: UPDATED BY CUSTOMER COMMENTS

10-MAR-2022

DESC: FIRST ISSUE

REV DATA

DIS

CHK

APP

THE PROPRIETARY AND/OR CONFIDENTIAL MATERIAL IS THE PROPERTY OF FLOWSERVE CORP AND IS FURNISHED ONLY FOR THE PURPOSE INDICATED. FLOWSERVE RESERVES ALL RIGHTS IN THE MATERIAL AND DOES NOT CONVEY PERMISSION TO MANUFACTURE OR USE THE CONFIDENTIAL OR PROPRIETARY INFORMATION CONTAINED HEREIN.

NOTES:

1.- SELF VENTING PUMP

2.- APPLICABLE TOLERANCES ACCORDING TO ASME B16.5

3.- ALL FLANGE HOLES STRADDLE CENTERLINE

4.- ALL FLANGES WILL BE SMOOTH FINISH 125-250 AARH

5.- ROTOR WEIGHT: 21 kg (46.3 lb)

Δ5.- ANCHOR BOLT MATERIAL: ASTM F1554 (SUPPLIED BY OTHERS)

Δ6.- MOTOR FRAME MUST BE GROUNDED TO THE BASEPLATE WITH #2 AWG GREEN CABLE

SUCTION

2" dia ASME 300 RF

mm

Inch

DISCHARGE

1" dia ASME 300 RF

mm

Inch

DB

Nominal Bore Dia.

50.8

2

OD

Outside Flange Dia.

165

6.5

BC

Bolt Circle Dia.

127

5

NF

Number of Holes

8

8

DF

Holes Diameter

19

0.75

RF

Raised Face Dia.

92.1

3.62

TK

Raised Face Thick.

2

0.06

TF

Flange Thick.

20.7

0.81

NF=DF on BC

OD

RF

DB

25.4

1

125

4.88

88.9

3.5

4

4

19

0.75

50.8

2

2

0.06

15.9

0.62

MECHANICAL SEAL CONNECTIONS

FI 1/2" NPT Flushing Inlet

LBI 3/4" NPT Barrier Fluid Inlet

LBO 3/4" NPT Barrier Fluid Outlet

ΔQ 3/8" NPT Quench

ΔD LBI

ΔD 3/8" NPT Drain

COUPLING END VIEW ΔPI 1/2" NPT Pressure Indicator

EL Motor:

TECO-WESTINGHOUSE

ΔENCL: TEFC

SITE AREA CLASS:

CLASS I, DIV. 2, GROUPS B, C, D, TEMP CODE T3 (T3C WHEN STARTED DOL ONLY)

HZ:

60

HP:

5

PHASE:

3

V:

460

RPM:

1800

FRAME:

184T

DWG:

31049U593010

Coupling

REXNORD THOMAS

Type:

SERIES 71

with non sparking guard Material:

Aluminum

PUMP CASING AND BASEPLATE ARE DESIGNED TO WITHSTAND TWICE THE FORCES AND MOMENTS IN BELOW TABLE

	FORCES				MOMENTS			
	N	API 610	Nm	API 610	N	API 610	Nm	API 610
DISCHARGE	Fx	Fy	Fz	Fr	Mx	My	Mz	Mr
	710	580	890	1280	460	230	350	620
	160	130	200	290	340	170	260	460
SUCTION	890	710	580	1280	460	230	350	620
	200	160	130	290	340	170	260	460

FOUNDATION LOADS (approx. Masses)

PUMP:

KG.

141

Lb.

310.8

BASE, COUPL. & ACCESSORIES:

KG.

710

Lb.

1565.3

SEAL SYSTEM:

KG.

350

Lb.

771.6

MOTOR:

KG.

45.8

Lb.

101

TOTAL:

KG.

1246.8

Lb.

2748.7

DYNAMIC LOADS ARE NEGLIGIBLE

CROSS SECTION

DWG:

50121HE1044-1045

MECHANICAL SEAL

FLOWSERVE

TYPE:

QBB/QBQ

DWG:

174721HE1044-1045

FLUSHING LINE

API PLAN 11/53B

COOLING LINE

API PLAN M

CUSTOMER INFORMATION

P.O. NUMBER

4505606431

CUSTOMER

WORLD ENERGY PARAMOUNT

JOB

A8KM

PLANT

WORLD ENERGY PARAMOUNT

UNIT

RENEWABLE JET FUEL UNIT B

SERVICE

SLOP OIL PUMP

ITEM

18-P-354A/B

SERIAL N.

21HE1044-1045

ORDER NO.

21HE1044-1045

DRWN:

G.GUERRERO

DATE:

10-Mar-2022

CHKD:

G.GUERRERO

DATE:

10-Mar-2022

APVD:

E.PEREZ

DATE:

10-Mar-2022

PROTECTION GRIDS AROUND ALL ROTATING PARTS

STATUS OF APPROVAL FOR APPROVAL

CUSTOMER'S NOZZLES POSITION TOLERANCES

ALL CUSTOMER CONNECTIONS LOCATIONS DIMENSIONS HAVE A TOLERANCE OF ±25 (1 inch) EXCEPT FOR THE PUMP SUCTION AND DISCHARGE NOZZLE WHICH HAVE A TOLERANCE OF ±6.4 (0.25 inch) UNLESS OTHERWISE SPECIFIED

BASEPLATE TOLERANCES ACCORDING TO API 610 Annex D

ALWAYS PROVIDE PROTECTION GRIDS AROUND ALL ROTATING PARTS

STATUS OF APPROVAL FOR APPROVAL

CUSTOMER'S NOZZLES POSITION TOLERANCES

ALL CUSTOMER CONNECTIONS LOCATIONS DIMENSIONS HAVE A TOLERANCE OF ±25 (1 inch) EXCEPT FOR THE PUMP SUCTION AND DISCHARGE NOZZLE WHICH HAVE A TOLERANCE OF ±6.4 (0.25 inch) UNLESS OTHERWISE SPECIFIED

BASEPLATE TOLERANCES ACCORDING TO API 610 Annex D

SIZE

A1

DRAWING NUMBER

50021HE1044-1045

REV.

C

SCALE:

1/10

UNITS:

mm(in)

SHEET:

1

OF:

1

Extracted: K191540900

CAD File: A21HE1044-1045K1