2 1538 4510 041

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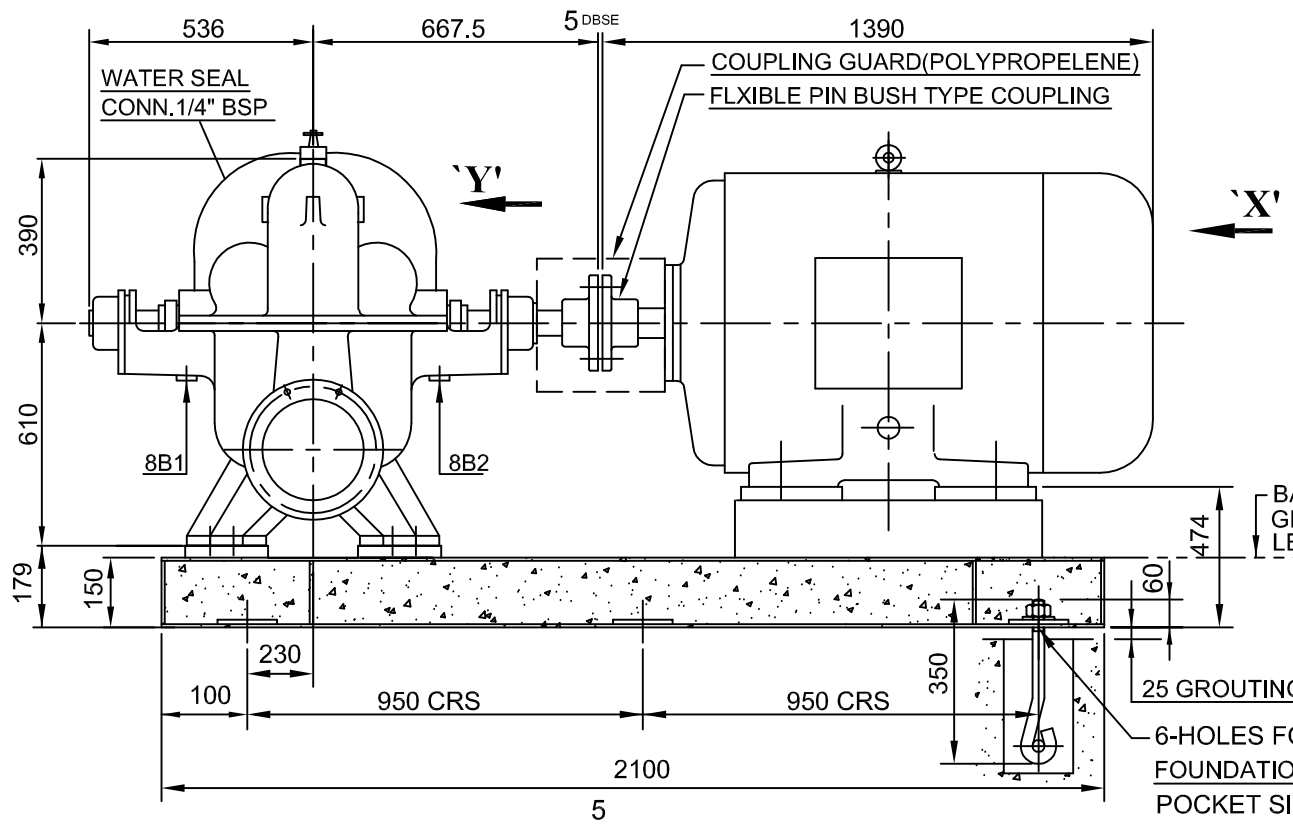
DO NOT SCALE. WORK TO DIMENSIONS. DEBURR AND REMOVE SHARP EDGES. DIMENSIONS IN MM. EXCEPT WHERE OTHERWISE STATED.

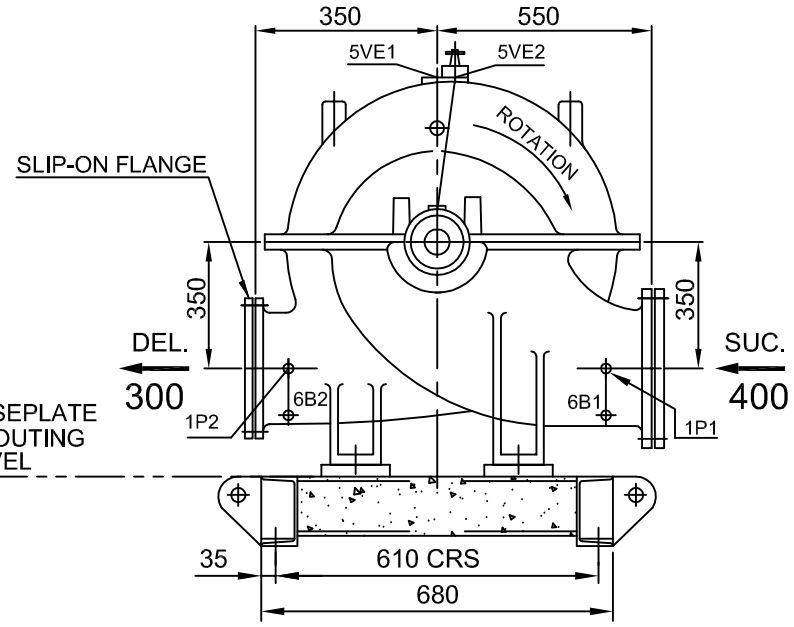
FIRST ANGLE PROJECTION

IF IN DOUBT, ASK !

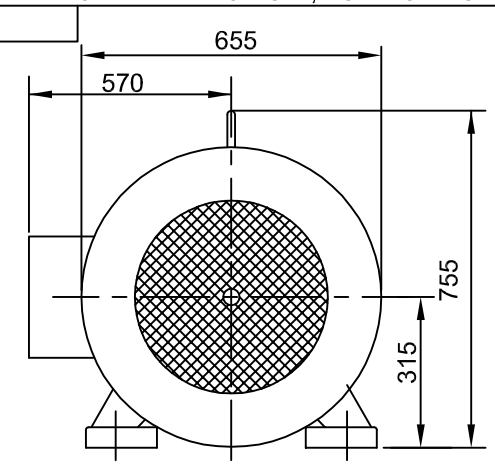
ALL CONNECTIONS ARE PLUGGED EXCEPT 8B1 & 8B2. BEARING : ANTI-FRICTION , LUBRICATION : GREASE

DIRECTION OF ROTATION - CLOCKWISE FROM ARROW 'Y'

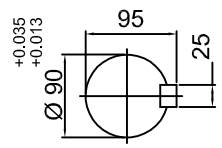




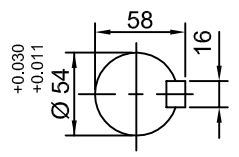
VIEW FROM ARROW `Y'
(ONLY FOR PUMP)



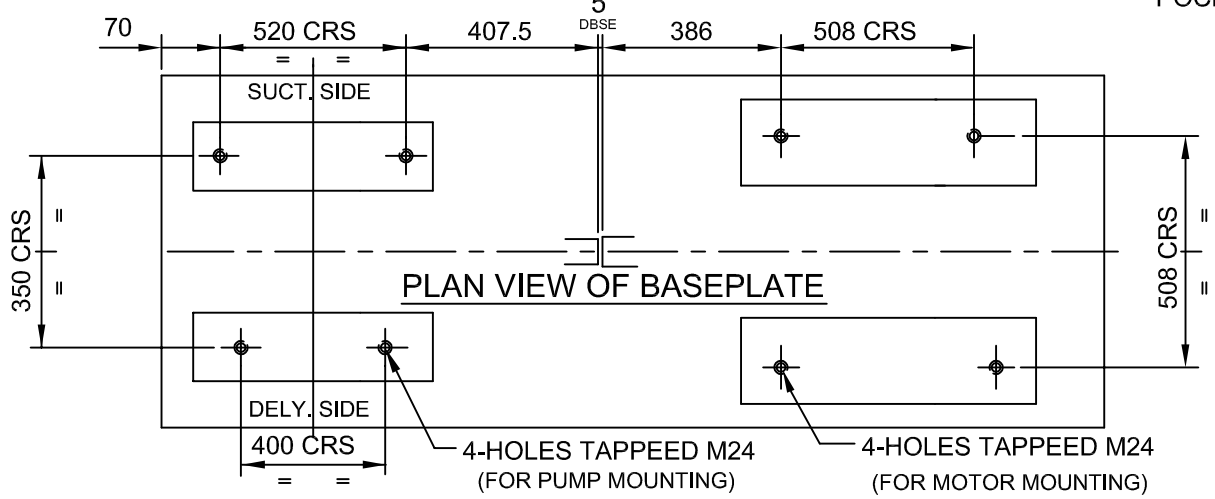
VIEW FROM ARROW `X'
(ONLY FOR MOTOR)



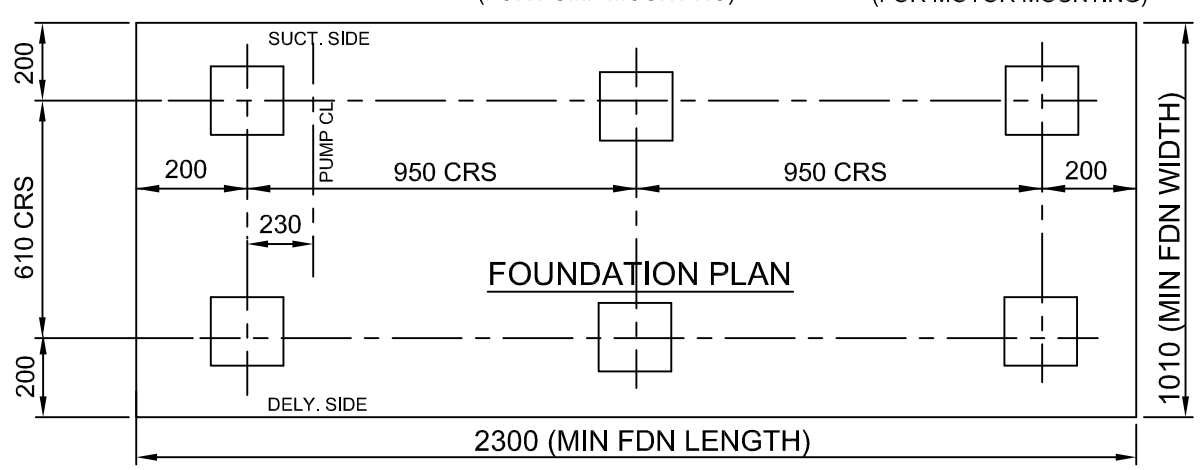
COUPLING END DETAILS
(FOR MOTOR SHAFT)



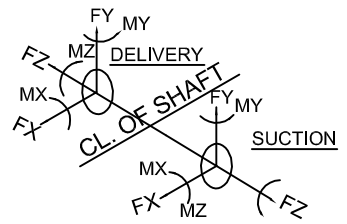
COUPLING END DETAILS
(FOR PUMP SHAFT)



PLAN VIEW OF BASEPLATE



FOUNDATION PLAN



MAXIMUM ALLOWABLE NOZZLE LOADS						
BRANCH	FORCES IN KG.			MOMENTS IN KG.M.		
	FX	FY	FZ	MX	MY	MZ
SUCTION 400	864	682	1045	748	554	374
DELIVERY 300	682	545	818	623	471	305

DUTY PARAMETERS	
CAPACITY	1,650.00 m3/h
NETT GEN HEAD	25.00 m
SHUT OFF HEAD	30.00 m
NPSH(R)	3.40 m
EFFICIENCY :	83.50 %
kW ABSORBED :	134.53 KW
MOTOR RATING	160.00 KW
FULL LOAD SPEED	1,488 RPM
GD2	5.11KG-M2
QUANTITY	3Nos

ITEM	DESCRIPTION	SIZE	QTY
8B2	GLAND DRAIN	3/4"BSP.	1
8B1	GLAND DRAIN	3/4"BSP.	1
6B2	CASING DRAIN (DELIVERY SIDE)	3/4"BSP.	1
6B1	CASING DRAIN (SUCTION SIDE)	3/4"BSP.	1
5VE2	AIR COCK	3/8"BSP.	1
5VE1	PRIMING	1"BSP.	1
1P2	PRESSURE GAUGE FOR DELIVERY	3/8"BSP.	1
1P1	COMPOUND GAUGE FOR SUCTION	3/8"BSP.	1

CONNECTIONS

APPROXIMATE WEIGHTS IN Kgs.	
PUMP	880
MOTOR	1200
BASE PLATE	247
COUPLING & GUARD	68
TOTAL WEIGHT (STATIC LOAD)	2395
DYNAMIC LAOD	3114
DYNAMIC LOAD PER FOUNDATION BOLT	519

ORDER No : 81246448-240

FLANGE DRILLING DETAILS AS PER : ANSI B16.1 CL,125 FF

BRANCH	O/D.	P.C.D.	NO. & SIZE OF HOLES OFF CL'S.	THICK	R. F. FLANGE		SLIP-ON FLANGE	
					R. F. DIA.	R. F. THK.	I. DIA.	THICK
SUCTION - 400	595	540	16 - DIA 28	37	-	-	434	37
DELIVERY - 300	485	432	12 - DIA 25	32	-	-	327	32

REV.	REVISION	DATE	INITIAL	CHD.

Mather + Platt

DRAWN BY	SNS	13/08/2014
CHECKED BY	DDW	13/08/2014
APPROVED BY	DDW	13/08/2014

MATHER & PLATT PUMPS LTD., CHINCHWAD, PUNE - 19.

GENERAL ARRANGEMENT DRAWING FOR

PUMP -: SCP 300-400 HA

MOTOR -: CGL, FR SIZE - ND 315LX, 4 POLES

SCALE : NTS REV.

DRAWING No.

2 1414 5300 263 **00**

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