

PERFORMANCE CURVE OF 10HF22MK1 @1500 R.P.M

10HF22MK1/Y/0111

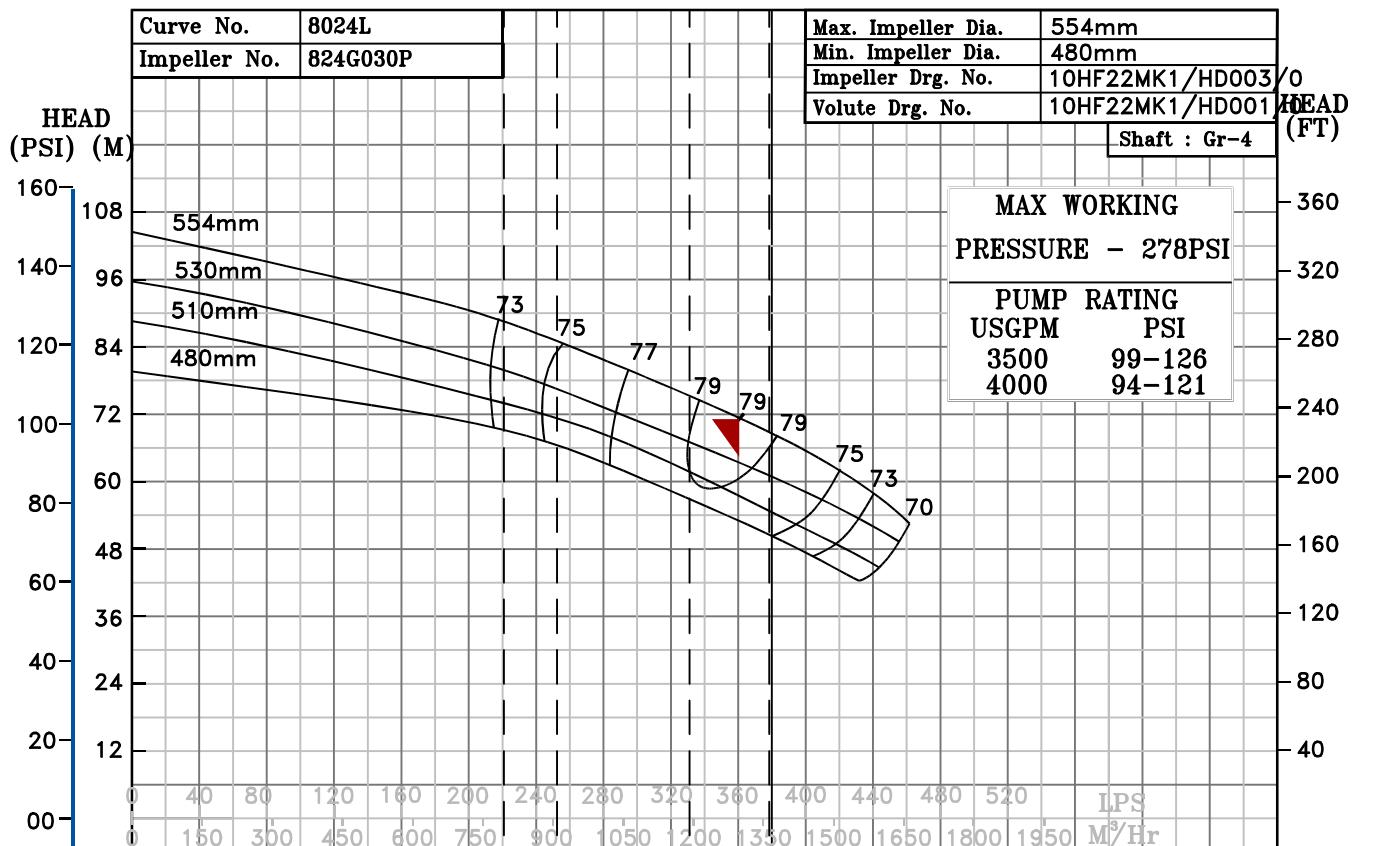


HF RANGE

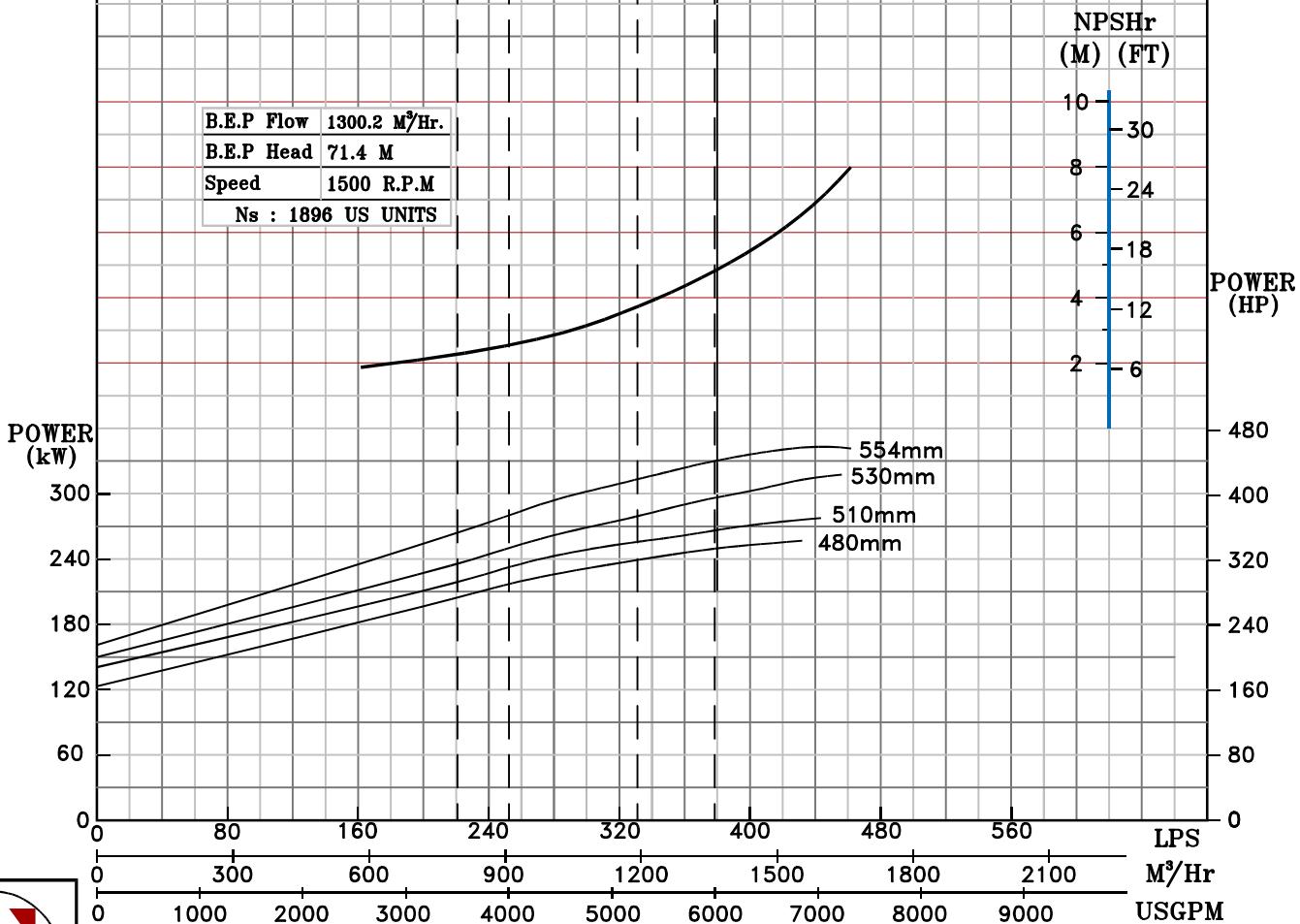
MODEL 10HF22MK	WORKING PRESS. 25 bar
SIZE 350x250-554	TEST PRESS. 37.5bar
TYPE-AXIALLY SPLIT CASE SINGLE STAGE	
SPEED 1500 rpm	

RATED CAPACITY - 3500,4000 USGPM

PUMP PERFORMANCE CHARACTERISTICS COMPUTED BASED ON CLEAN COLD WATER S.G 1.0



B.E.P Flow	1300.2 M ³ /Hr.
B.E.P Head	71.4 M
Speed	1500 R.P.M
Ns	: 1896 US UNITS



1500 RPM

PERFORMANCE CURVE OF 10HF22MK1 @1760 R.P.M

10HF22MK1/Y/0111



HF RANGE

RATED CAPACITY - 3500,4000,4500 USGPM

MODEL 10HF22MK	WORKING PRESS 25 bar
SIZE 350x250-554	TEST PRESS. 37.5bar
TYPE-AXIALLY SPLIT CASE SINGLE STAGE	
SPEED 1760 rpm	

PUMP PERFORMANCE CHARACTERISTICS COMPUTED BASED ON CLEAN COLD WATER S.G 1.0

Curve No.	802464_FM4
Impeller No.	824G030P

Max. Impeller Dia. 554mm

Min. Impeller Dia. 480mm

Impeller Drg. No. 10HF22MK1/HD003

Volute Drg. No. 10HF22MK1/HD001

HEAD (FT)

Shaft : Gr-4

HEAD
(PSI) (M)

200 144 554mm

180 128 530mm

160 112 510mm

140 96 480mm

120 80

100 64

80 48

60 32

40 20

20 16

00 00

MAX WORKING
PRESSURE - 278PSI

PUMP RATING

USGPM PSI

3500 142-178

4000 138-175

4500 133-169

HEAD
(FT)

500

450

400

350

300

250

200

150

100

50

0

LPS

M³/Hr

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750

0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600

00 00

NPSH_r
(M) (FT)

10 -30

8 -24

6 -18

4 -12

2 -6

POWER (HP)

POWER (kW)

500

400

300

200

100

0

554mm

530mm

510mm

480mm

720

600

480

360

240

120

0

LPS

M³/Hr

0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750

0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600

00 00

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000

00 00

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000

00 00

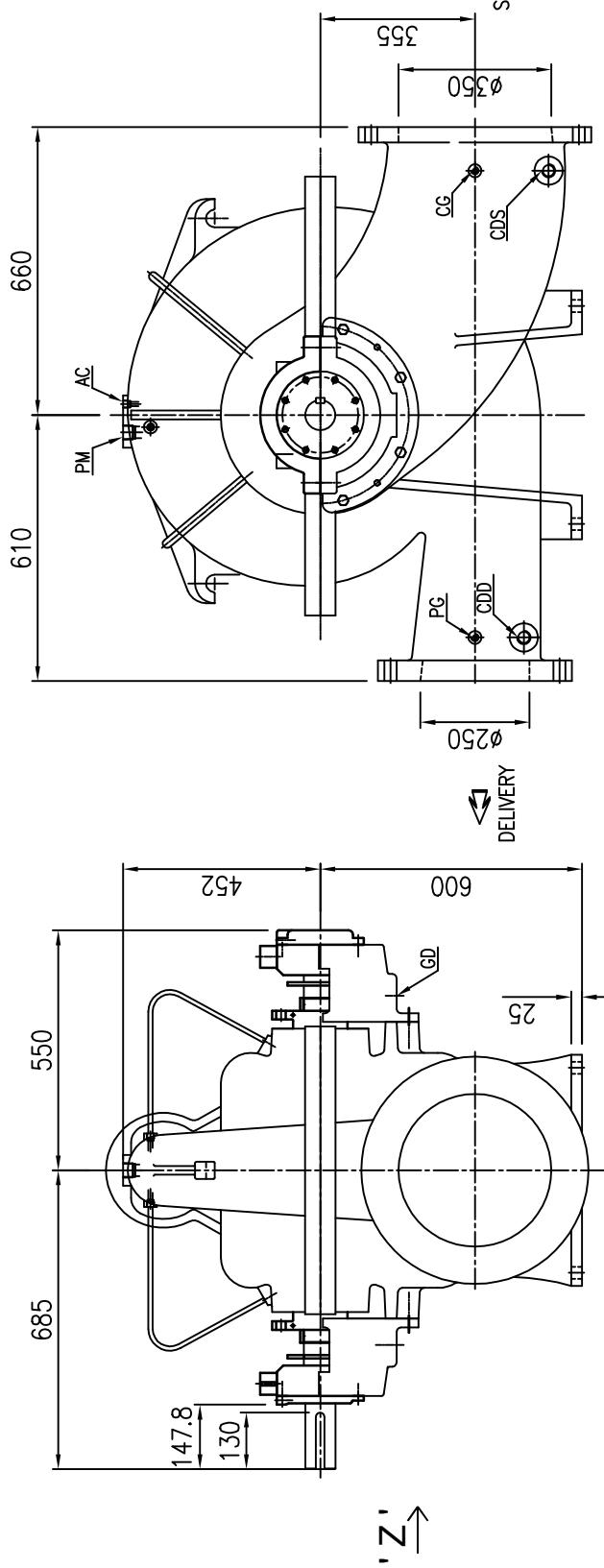


B.E.P.

1760 RPM

GENERAL ARRANGEMENT DRAWING FOR SINGLE STAGE AXIALLY SPLIT CASE PUMP MODEL = 10HF22/MK1

CLOCK-WISE ROTATION
LOOKING FROM DRIVE END



VIEW IN DIRECTION OF Z'

APPROX. NET WEIGHT - 1100kg.

ALL DIMENSIONS ARE IN MM.

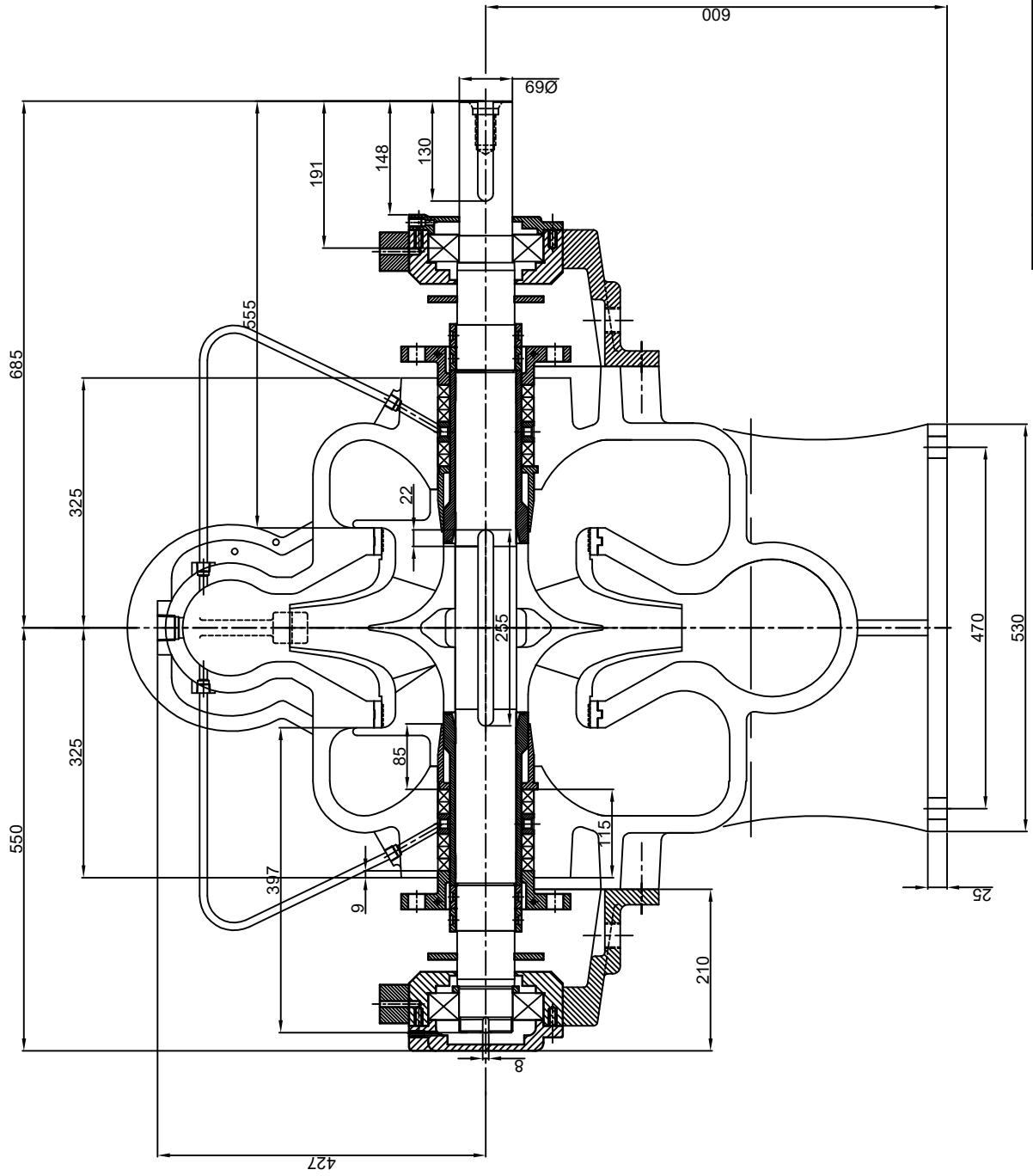
CONNECTIONS		ITEM	DESCRIPTION	SIZE(NPT)
GD	GLAND DRAIN	CG	COMPOUND GAUGE FOR SUCTION	1"
PG	PRESSURE GAUGE FOR DELIVERY	AC	AIR COCK	3/8"
PM	PRIMING	CDS	CASING DRAIN(SUCTION SIDE)	3/8"
CDD	CASING DRAIN(DELIVERY SIDE)			1"

THE STATEMENT PREPARED BY THE CUSTODIER.

PROJECT NAME:-			JOB NO.:-		
TITLE:-			SCALE		
PUMPSENSE			1:1		
GA DRG. FOR 10HP22/MK1			REV 0		
DRN	SP	18.06.14	DRG. NO.		
CHKD	SP	18.06.14	PSF/10HP22/MK1/GA-01		
APPD	BB	18.06.14			
REV	DESCRIPTION	DRN	CHKD	DATE	

S	ANSI#250	23"	20-1/4"	2-1/8"	20, Ø1-1/4"	—	—	17-1/2"	15-1/4"	1-7/8"	16, Ø1-1/8"	—	—
D	ANSI#250												
REF.	TYPE OF FLANGE.	O.D.	P.C.D.	THK	NO SIZE OF HOLE OFF C/L	RFØ	RF	THK	O.D.	P.C.D.	THK MIN OFF C/L	NO SIZE OF HOLE OFF C/L	RFØ RF THK R.F. FLANGE
SUCTION- #350												DELIVERY- Ø250	

SET-OUT DRAWING FOR 10HF22 MK1 (PACK GLAND FITTED)



SL.NO.	SET-OUT DESCRIPTION	1	REMARKS	SET-OUT DRAWING FOR 10HF22 MK1			
				(GLAND PACK FITTED)			
DRN	TK	22/02/18	DRG. NO.				
CHKD	AD	22/02/18	827SE10Y				
APPD	HS	22/02/18					

REV.	DESCRIPTION	DRN	CHKD	DATE	ASSEMBLY NO.	REV.
					8272620	0

SCALE
1:1

REV.
0

Datasheet For : 10HF22 MK1			
	PARAMETERS	UNIT	VALUE
RATED DUTY	Capacity	M³/Hr	1530
	Total Head	Mt	97
	Speed	RPM	1760
	Type of Pump		Horizontal Single Stage Pump
	Liquid		Clear Water
	Specific Gravity		1
	Temperature	°C	32
	Driver		Electric Motor
	No. Off		1
PUMP DETAILS	Make		PUMPSENSE
	Stages		Single Stage
	Model No.		10HF22 MK1
	Discharge	mm	250
	Flange Rating Discharge		ASME/ANSI B16.1 - Class 250
	Suction	mm	350
	Suction Flange Rating		ASME/ANSI B16.1 - Class 250
	Type of Casing		Single Volute
	Type of Impeller		Shrouded Double Entry
	Impeller Diameter Max	mm	554
	Impeller Diameter Min	mm	480
	Rotation		CW
PERFORMANCE DETAILS AS RATED DUTY	Efficiency	%	79
	Rated Speed	RPM	1760
	NPSHr	Mt	7
	Power Absorbed	kW	512
	Recommended Driver Power	kW	589
	Driver Details		4 Pole, 60 Hz, 3 Phase AC Induction Motor
MECHANICAL DATA	Bare Pump Weight	kg	1100
	Shaft dia. at coupling	mm	69
	N.D.E. Bearing		1 X SKF 6314 C3
	D.E. Bearing		1 X SKF 6314 C3
	Casing		Cast Iron CI FG 260
MATERIALS OF CONSTRUCTION	Impeller		Leaded Gunmetal BS 1400 LG2
	Casing Wear Ring		Leaded Bronze BS 1400 LB2
	Shaft		ASTM A 276/ A 182 Type 410
	Shaft Sleeve & Nuts		Tin Bronze/ Zinc Free Bronze BS 1400 CT1
	Gland		Leaded Gunmetal BS 1400 LG2
	Lantern Ring		Leaded Gunmetal BS 1400 LG2
	Stuffing Box		Gland Packed Fitted
	Packing		CARRARA Make Soft Packing Style R4804
	Fasteners		HTS GR. 10.9