

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

10HF22MK1/Y/0111

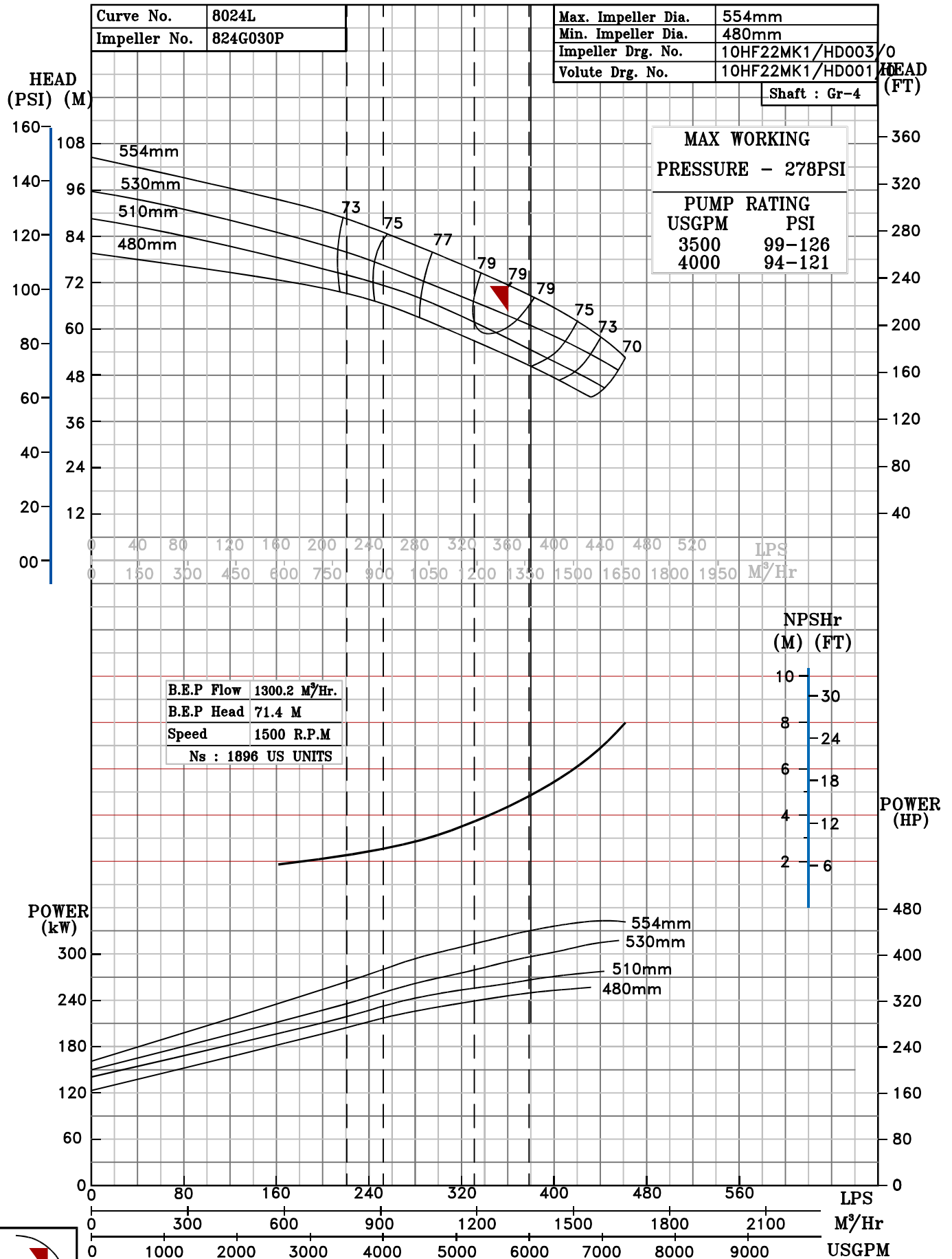


HF RANGE

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



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

10HF22MK1/Y/0111



HF RANGE

MODEL 10HF22MK1	WORKING PRESS. 25 bar
SIZE 350x250-554	TEST PRESS. 37.5bar
TYPE-AXIALLY SPLIT CASE SINGLE STAGE	SPEED 1760 rpm

RATED CAPACITY - 3500,4000,4500 USGPM

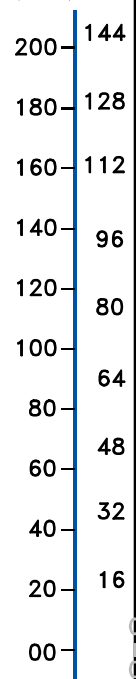
PUMP PERFORMANCE CHARACTERISTICS COMPUTED BASED ON CLEAN COLD WATER S.G 1.0

Curve No.	802464_FM4
Impeller No.	824G030P

Max. Impeller Dia.	554mm
Min. Impeller Dia.	480mm
Impeller Drg. No.	10HF22MK1/HD003/0
Volute Drg. No.	10HF22MK1/HD001/0

Shaft : Gr-4

HEAD  
(PSI) (M)

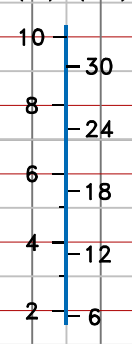


MAX WORKING  
PRESSURE - 278PSI

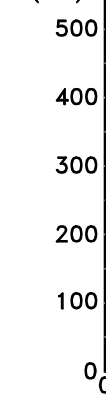
PUMP RATING	
USGPM	PSI
3500	142-178
4000	138-175
4500	133-169

B.E.P Flow	1538 M³/Hr.
B.E.P Head	98 M
Speed	1760 R.P.M
Ns	: 1908 US UNITS

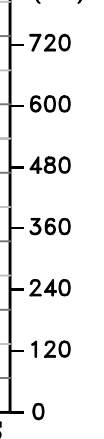
NPSHr  
(M) (FT)



POWER  
(kW)

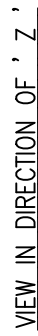


POWER  
(HP)



1760 RPM

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



APPROX. NET WEIGHT - 1100kg.  
ALL DIMENSIONS ARE IN MM.

CONNECTIONS		
ITEM	DESCRIPTION	SIZE(NPT)
GD	GLAND DRAIN	1"
CG	COMPOUND GAUGE FOR SUCTION	3/8"
PG	PRESSURE GAUGE FOR DELIVERY	3/8"
AC	AIR COCK	3/8"
PM	PRIMING	1-1/2"
CDS	CASING DRAIN(SUCTION SIDE)	1"
CDD	CASING DRAIN(DELIVERY SIDE)	1"

**\*\* GAUGE CONNECTIONS DRILLED AND TAPPED ONLY  
THEN SPECIFICALLY REQUESTED BY THE CUSTOMER.**

[illegible]

Technical drawing of a mechanical assembly, likely a pump or engine component, showing a cross-section with various dimensions and a central shaft.

Key dimensions and features include:

- Overall width: 685
- Overall height: 550
- Central shaft diameter:  $\varnothing 69$
- Shaft length: 255
- Internal bore diameter: 22
- Internal bore length: 85
- Internal bore offset: 9
- Internal bore offset: 115
- Internal bore offset: 191
- Internal bore offset: 148
- Internal bore offset: 130
- Internal bore offset: 555
- Internal bore offset: 397
- Internal bore offset: 325
- Internal bore offset: 325
- Internal bore offset: 210
- Internal bore offset: 470
- Internal bore offset: 530
- Internal bore offset: 25
- Internal bore offset: 8

[illegible]

Datasheet For : 10HF22 MK1			
	PARAMETERS	UNIT	VALUE
RATED DUTY	Capacity	M <sup>3</sup> /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 Bornze 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