

PERFORMANCE CURVE OF 8HF22 @1500 R.P.M

8HF22/Y/0111



HF RANGE

RATED CAPACITY - 2000,2500 USGPM

MODEL 8HF22

WORKING PRESS 25 bar

SIZE 350x250-554

TEST PRESS. 37.5bar

TYPE-AXIALLY SPLIT CASE SINGLE STAGE

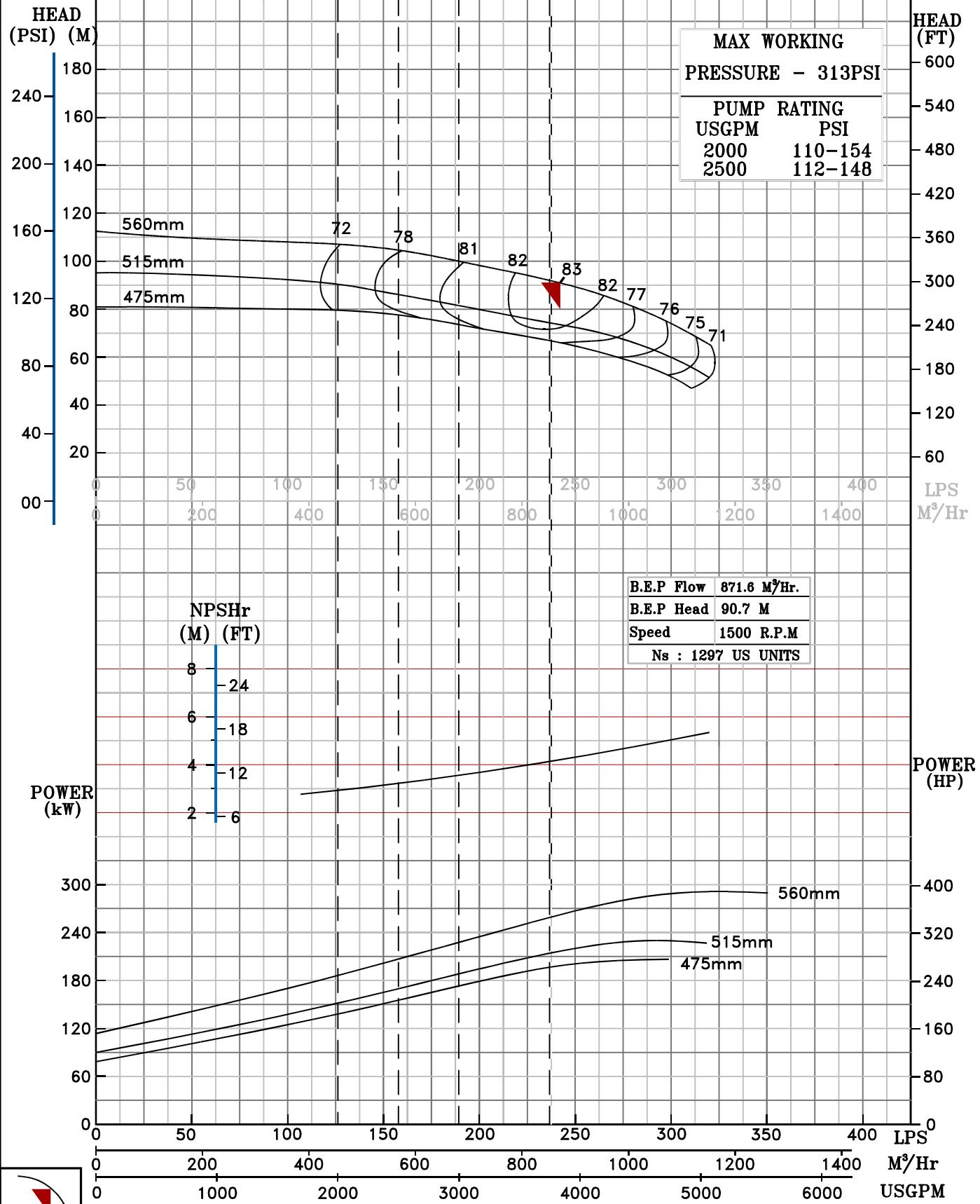
SPEED 1500 rpm

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

Curve No.	8034L
Impeller No.	834G030P

Max. Impeller Dia.	560mm
Min. Impeller Dia.	475mm

Shaft : Gr-4



B.E.P

1500 RPM

PERFORMANCE CURVE OF 8HF22 @1800 R.P.M

8HF22/Y/0111



HF RANGE

RATED CAPACITY - 2000,2500 USGPM

MODEL 8HF22

WORKING PRESS 25 bar

SIZE 350x250-554

TEST PRESS. 37.5bar

TYPE-AXIALLY SPLIT CASE SINGLE STAGE

SPEED 1800 rpm

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

Curve No. 8034D_FM4

Impeller No. 834G030P

Max. Impeller Dia. 560mm

Min. Impeller Dia. 475mm

Shaft : Gr-4

**HEAD
(PSI) (M)**

560mm

515mm

475mm

**HEAD
(FT)**

600

540

480

420

360

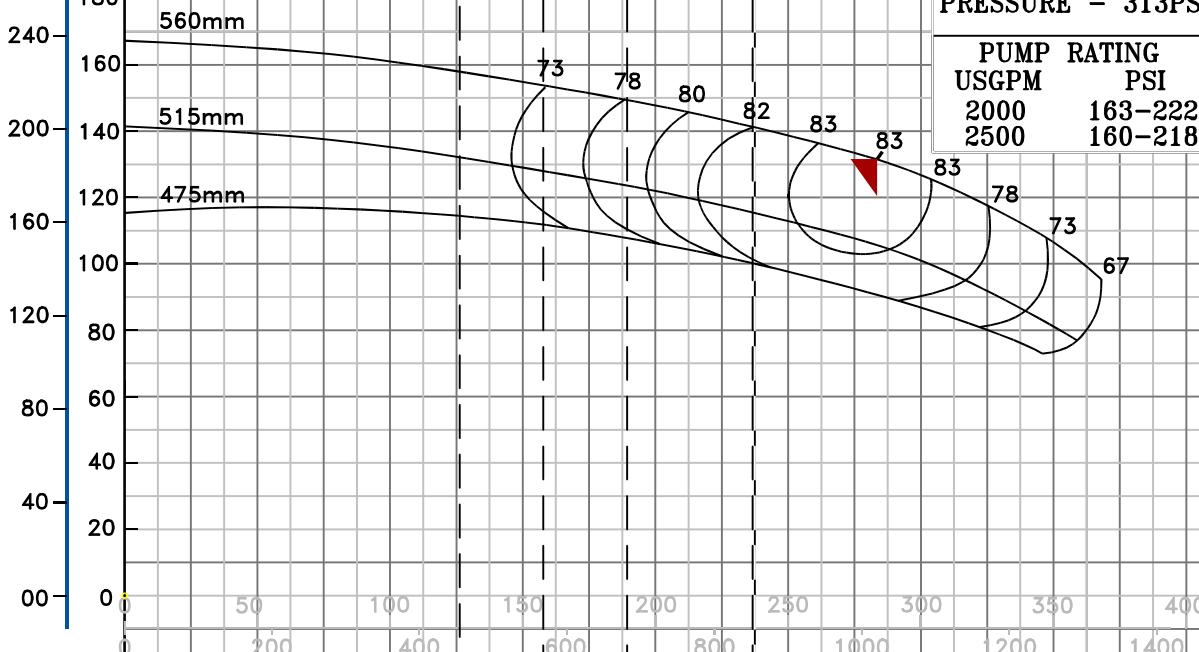
300

240

180

120

60



**MAX WORKING
PRESSURE - 313PSI**

PUMP RATING

USGPM PSI

2000 163-222

2500 160-218

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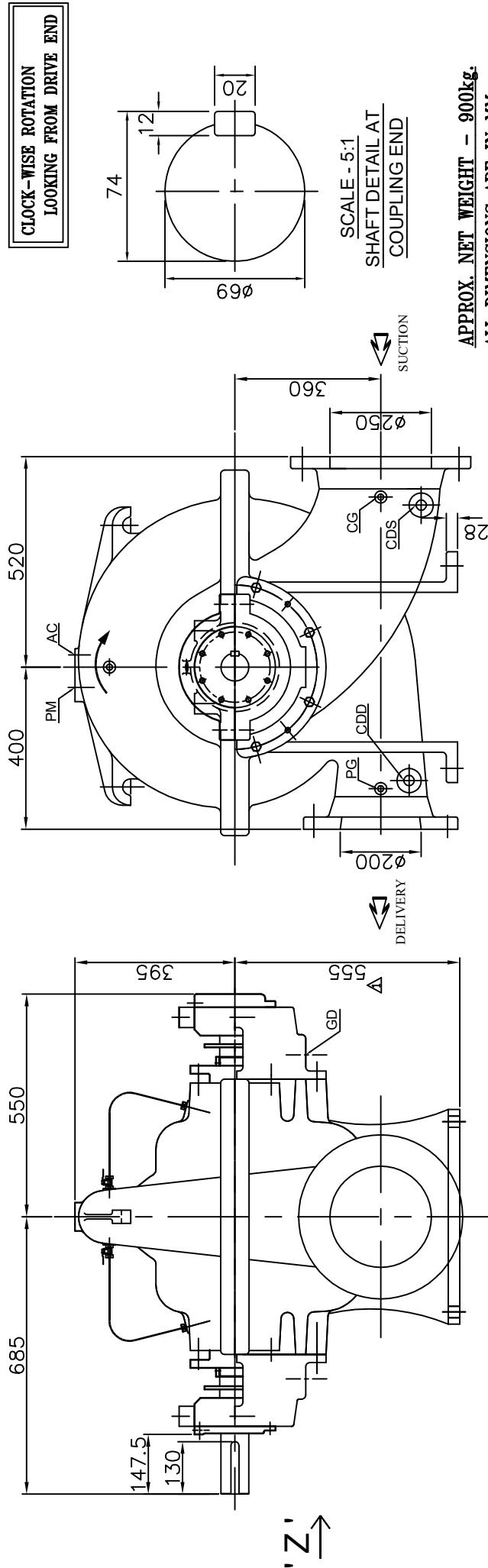
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PUMP MODEL - 8HF22

GENERAL ARRANGEMENT DRAWING FOR SINGLE STAGE AXIALLY SPLIT CASE PUMP MODEL - 8HF22

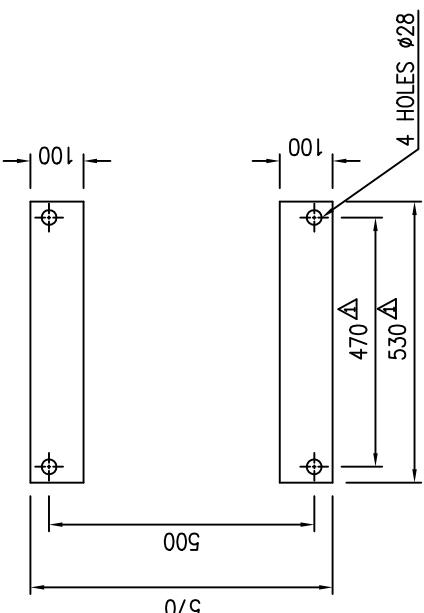
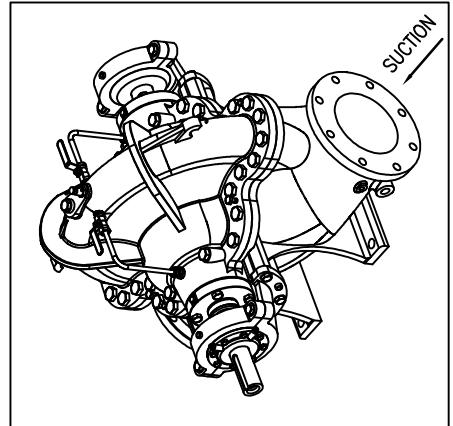


APPROX. NET WEIGHT - 900kg.
ALL DIMENSIONS ARE IN MM.

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"

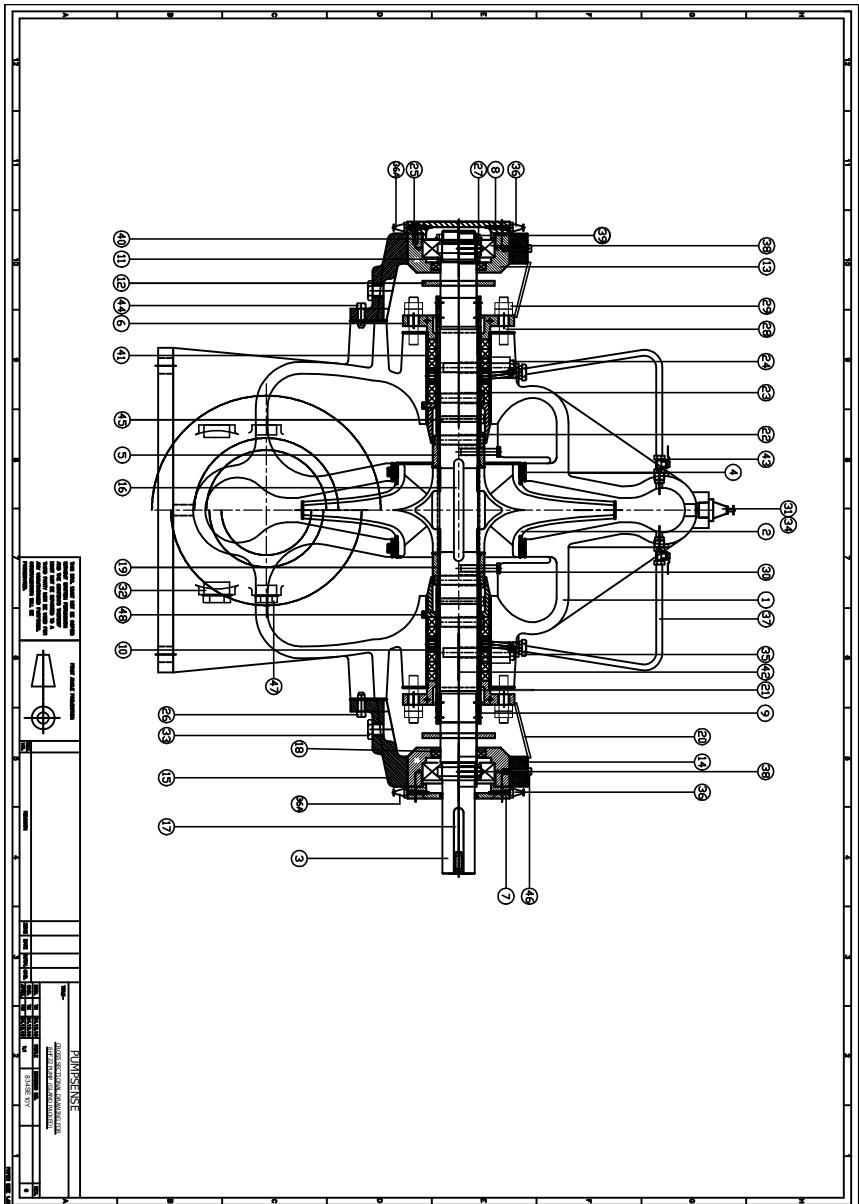
** GAUGE CONNECTIONS DRILLED AND TAPPED ONLY WHEN
SPECIFICALLY REQUESTED BY THE CUSTOMER.

PROJECT NAME-		JOB NO.-		PUMPSENSE		GA DRG. FOR 8HF22		SCALE	
DRN	ST	10.09.17	AD	ST	10.09.17	DRN	ST	01.09.14	1:1
CHKD	SP					CHKD	SP	01.09.14	REV
APPD	HS					APPD	HS	01.09.14	1



PLAN OF PUMP FEET

S	ANSI 125FF	16"	4-1/4"	1-3/16"	12 φ1"	—	—	—	—
D	ANSI 250FF					15' 13"	1-5/8"	12 φ1"	—
REF. TYPE OF NO. FLANGE.	D.D. P.C.D.	NO. SIZE RF	THK	RF THK	D.D. P.C.D.	THK NO. SIZE RF	RF THK	MIN OF HOLE R.F. FLANGE	REV



SL. NO.	PART. NO.	NAME OF PARTS	DESCRIPTION	QTY	MATERIALS
1	8341832M	CASING	-	1 SET	CF FG 260 BS 1452
2	8341020M	IMPELLER	-	1	BRONZE LG2 BS 1400
3	1301013	SHAFT	-	1	ASTI 410
4	1301290	CASING WEAR RING	-	2	BRONZE CTI BS 1400 / ASTI 316
5	1301502	SHAFT SLEEVE	-	2	BRONZE CTI BS 1400 / ASTI 316
6	1301441	SPLIT GLAND	-	2	BRONZE LG2 BS 1400
7	1301342	BEARING END COVER (O.E)	-	1	CF FG 260 BS 1452
8	1301332	BEARING END COVER (NDE)	-	1	CF FG 260 BS 1452
9	1301461	SLEEVE NUT(L.H. & R.H.)	-	2+2	BRONZE CTI BS 1400 / ASTI 316
10	1301492	LANTERN RING	-	2	BRONZE LG2 BS 1400
11	1301250	THRUST COLLAR	-	1	ASTI 304
12	1301451	WATER THROMER	-	2	NEOPRENE
13	1302565/1302705	BEARING HOUSING	-	2	CF FG 260 BS 1452
14	1302552	BRACKET TOP CLAMP	-	2	CF FG 260 BS 1452
15	1302541/1302711	BEARING BRACKET	-	2	CF FG 260 BS 1452
16	1301801	IMPELLER KEY	-	1	ASTI 410
17	1301380	COUPLING KEY	-	1	ASTI 410
18	-	OIL SEAL (BEARING HOUSING) TYPE B	75X95X10	2	NITRILE
19	-	O-RING FOR SLEEVE	CS 82.5 - ID 97.8	2	VITON
20	-	SHAFT GUARD	-	2	ASTI 304
21	-	NAME PLATE SUPPORT	-	1	ALUMINUM
22	-	HEX HEAD SCREW	M24X75	24	HTS
23	-	HEX HEAD SCREW	M24X65	8	HTS
24	-	HEX HEAD SCREW	M24X125	4	HTS
25	-	HEX HEAD SCREW	M10X30 + M10X25	8+8	HTS
26	-	HEX HEAD SCREW	M20X40	4+4	HTS
27	-	HEX HEAD SCREW	M20X80	4	HTS
28	-	STUD	M20X90	4	ASTI 316
29	-	NUT	M20	4+4	ASTI 316
30	-	HEX HEAD SCREW	M16X60	4	HTS
31	-	PLUG	1-1/2" NPT	1	ASTI 304
32	-	PLUG	1" NPT	2	ASTI 304
33	-	PLUG	1 1/8" NPT	2	ASTI 304
34	-	AIR COCK	3/8" NPT	1	ASTI 304
35	-	OLIVE JOINT	3/8" NPT	2 SET (4 Nos)	ASTI 304
36	-	GREASE NIPPLE	1/4" NPT	2	ASTI 304
36A	-	GREASE PLUG	1/4" NPT	1	ASTI 304
37	-	SEAL FLUSHING LINE	SUITABLE FOR 3/8" NPT	1 MTR	ASTI 304
38	-	BEARING	6314	2	SKF (C3 type clearance)
39	-	LOCK NUT (RH)	KN14	1	SKF
40	-	LOCK WASHER	M614	1	SKF
41	-	GLAND PACKING	16X16 MM SQ	10 RINGS	Stainless Steel
42	-	GASKET	-	1	Vegetable fibre
43	-	BALL VALVE	-	1 SET (2 No)	Stainless Steel
44	-	DOMED PIN (BEARING BRACKET)	12x40	4	ASTI 304
45	-	DOMED PIN (CASING)	12x75	2	ASTI 304
46	-	LOCK PIN FOR BRG. TOP CLAMP	8x50	2	ASTI 304
47	-	PLUG	3/8" NPT	2	ASTI 304
48	8232600	STUFFING BOX BUSH	-	2	BRONZE LG2 BS 1400
49	-	NAME PLATE	100 X 80 - 0.5 mm Plate Thickness	1	SS 304

Datasheet For : 8HF22

	PARAMETERS	UNIT	VALUE
RATED DUTY	Capacity	M ³ /Hr	1065.6
	Total Head	Mt	130
	Speed	RPM	1800
	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.		8HF22
	Discharge	mm	200
	Flange Rating Discharge		ASME/ANSI B16.1 - Class 250
	Suction	mm	250
	Suction Flange Rating		ASME/ANSI B16.1 - Class 250
	Type of Casing		Single Volute
	Type of Impeller		Shrouded Double Entry
	Impeller Diameter Max	mm	560
	Impeller Diameter Min	mm	475
PERFORMANCE DETAILS AS RATED DUTY	Rotation		CW
	Efficiency	%	83
	Rated Speed	RPM	1800
	NPSHr	Mt	5.8
	Power Absorbed	kW	455
	Recommended Driver Power	kW	523
MECHANICAL DATA	Driver Details		4 Pole, 60 Hz, 3 Phase AC Induction Motor
	Bare Pump Weight	kg	900
	Shaft dia. at coupling	mm	69
	N.D.E. Bearing		1 X SKF 6314 C3
	D.E. Bearing		1 X SKF 6314 C3
MATERIALS OF CONSTRUCTION	Casing		Cast Iron CI FG 260
	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