

PERFORMANCE CURVE OF 8HF24 @1500 R.P.M



HF RANGE

MODEL 8HF24



SIZE 250x200-610

TYPE-AXIALLY SPLIT CASE SINGLE STAGE

SPEED 1500 rpm

RATED CAPACITY - 3000,3500 USGPM

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

Curve No.	8035L
Impeller No.	835G030P

Max. Impeller Dia. 610mm

Min. Impeller Dia. 520mm

Shaft Gr.- 4F

HEAD
(FT)

HEAD
(PSI) (M)

132 610mm

120 570mm

108 520mm

96

84

72

60

48

36

24

73

75

77

79

80

79

77

74

70

**MAX WORKING
PRESSURE - 259PSI**

PUMP RATING

USGPM PSI

3000 129-163

3500 125-156

480

420

360

300

240

180

120

LPS
M³/Hr

NPSH_r
(M) (FT)

8

6

4

2

0

POWER
(kW)

420

360

300

240

180

120

B.E.P Flow 1134.3 M³/Hr.

B.E.P Head 95 M

Speed 1480 R.P.M

Ns : 1546 US UNITS

POWER
(HP)

600

500

400

300

200

100

610mm

570mm

520mm

LPS
M³/Hr

USGPM

60

0

200

400

600

800

1600

3200

4000

4800

5600

6400

7200

LPS
M³/Hr

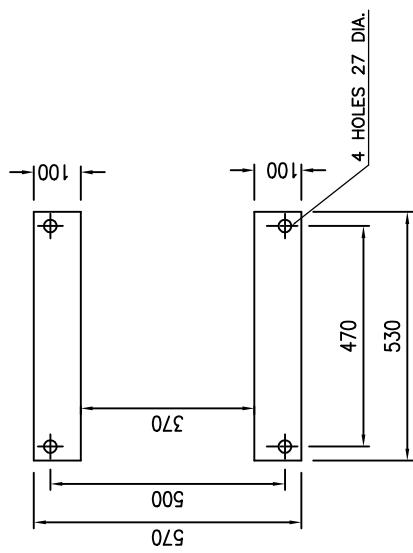
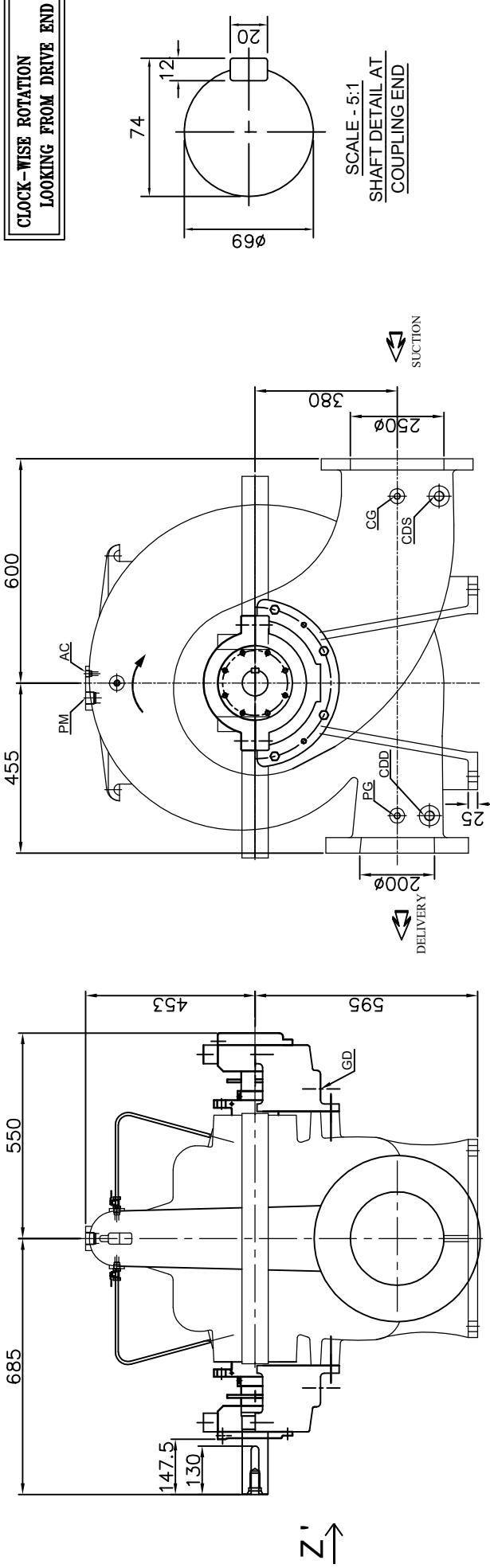
USGPM



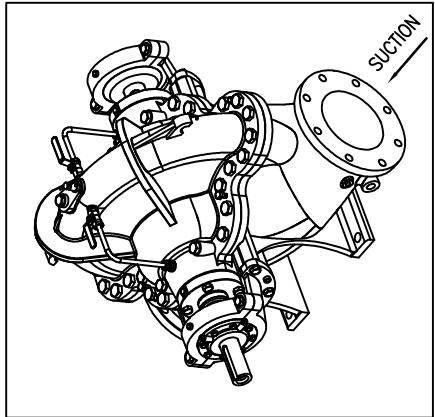
1500 RPM

PUMP MODEL - 8HF24

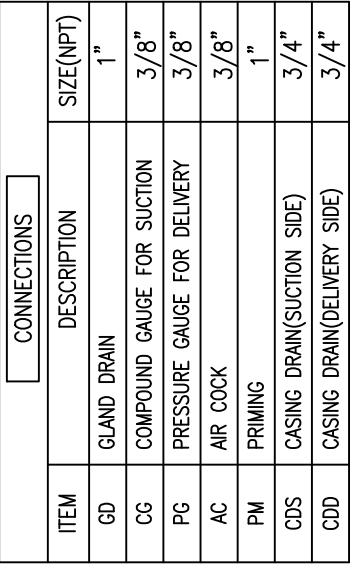
GENERAL ARRANGEMENT DRAWING FOR SINGLE STAGE AXIALLY SPLIT CASE PUMP MODEL - 8HF24



PLAN OF PUMP FEET



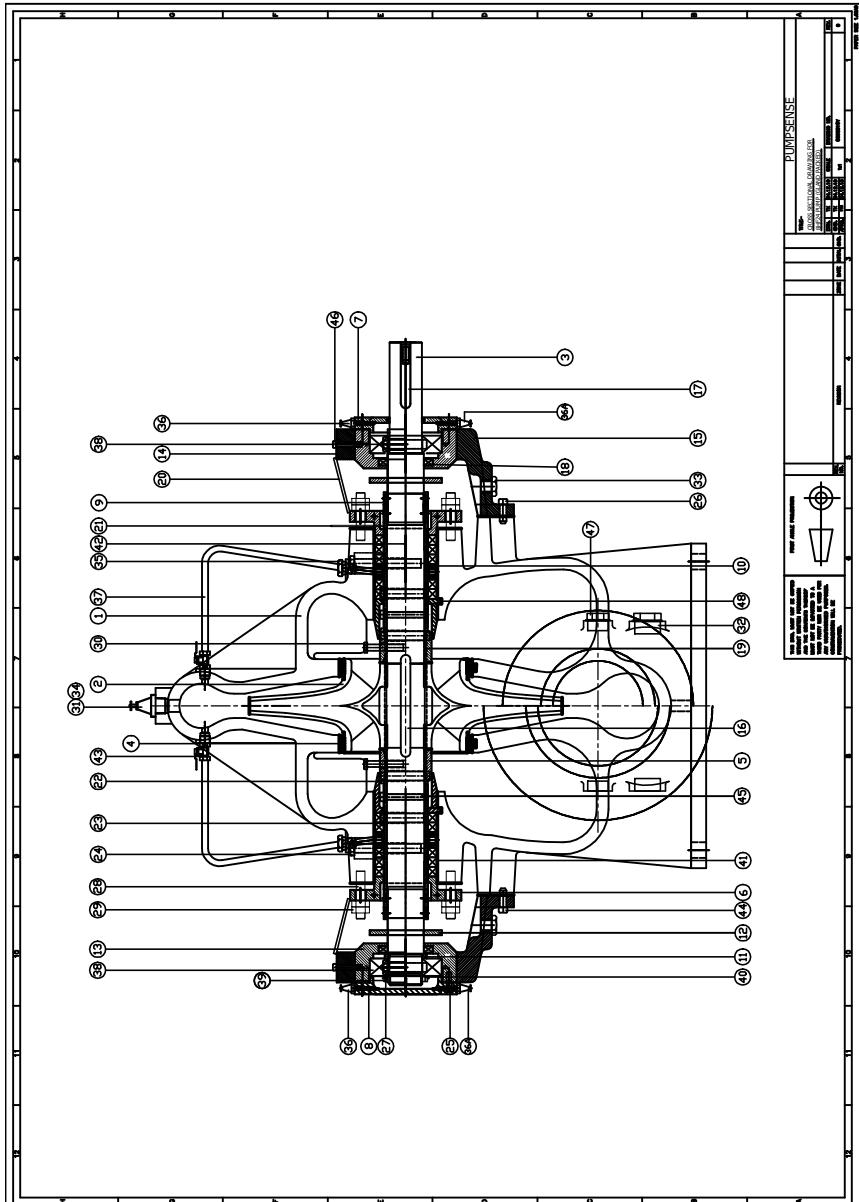
VIEW IN DIRECTION OF Z'



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

S	ANSI 250FF	17-1/2"	15-1/4"	1-7/8"	16-1-1/8"	—	—	15'	13'	1-5/8"	12'	1-1/2"	—	—	
D	ANSI 250FF														
REF.	TYPE OF FLANGE.	OD.	P.C.D.	THK. MIN.	NO. SIZE OF HOLE	RF Ø	RF THK	OD.	P.C.D.	THK MIN.	NO. SIZE OF HOLE	RF Ø	RF	THK FLANGE	
NO.															
	SUCTION	250	(10')	I.D.											DELIVERY 200 (8') I.D.

MATERIALS	QTY	DESCRIPTION	NAME OF PARTS	PART. NO.	SL. NO.
CF FG 260 BS 1452	1 SET	-	CASING	835183JM	1
BRONZE LG2 BS 1400	1	-	IMPELLER	835120DM	2
ALSI 410	1	-	SHAFT	8351013	3
BRONZE LB2 BS 1400	2	-	CASING WEAR RING	8351290	4
BRONZE CT1 BS 1400 / AISI 316	2	-	SHFT SLEEVE	8351502	5
BRONZE LG2 BS 1400	2	-	SPLIT GLAND	8351441	6
CF FG 260 BS 1452	1	-	BEARING END COVER (PE)	8351341	7
CF FG 260 BS 1452	1	-	BEARING END COVER (FE)	8351332	8
CF FG 260 BS 1452	2+2	-	SLEEVE NUT(L.H. & R.H.)	8351461	9
BRONZE CT1 BS 1400 / AISI 316	2	-	LANTERN RING	8351250	10
ALSI 304	1	-	THRUST COLLAR	83501451	11
NEOPRENE	2	-	WATER THROWER	8352665	12
CF FG 260 BS 1452	2	-	BEARING HOUSING	8352705	13
CF FG 260 BS 1452	2	-	BRACKET TOP CLAMP	8352552	14
CF FG 260 BS 1452	2	-	BEARING BRACKET	8352711	15
ALSI 410	1	-	IMPELLER KEY	8351801	16
ALSI 410	1	-	COUPLING KEY	8351380	17
NITRILE	2	-	OIL SEAL (BEARING HOUSING) TYPE B	75/95X10	18
VITON	2	-	O-RING FOR SLEEVE	CS 025 - ID 97.8	19
ALSI 304	2	-	SHAFT GUARD	-	20
ALUMINUM	1	-	NAME PLATE SUPPORT	M24X75	21
HTS	24	-	HEX HEAD SCREW	M24X65	22
HTS	8	-	HEX HEAD SCREW	M24X125	23
HTS	4	-	HEX HEAD SCREW	M10X30 + M10X35	24
HTS	8+8	-	HEX HEAD SCREW	M20X40	25
HTS	4+4	-	HEX HEAD SCREW	M20X80	26
HTS	4	-	HEX HEAD SCREW	M20X90	27
ALSI 316	4	-	STUD	M20	28
ALSI 316	4+4	-	HEX HEAD SCREW	M16x60	29
HTS	4	-	PLUG	1-1/2" NPT	30
ALSI 304	1	-	PLUG	1 1/2" NPT	31
ALSI 304	2	-	PLUG	1/2" NPT	32
ALSI 304	2	-	PLUG	3/8" NPT	33
ALSI 304	1	-	AIR COCK	3/8" NPT	34
ALSI 304	1	-	OLIVE JOINT	3/8" NPT	35
ALSI 304	2	-	GREASE NIPPLE	1/4" NPT	36
ALSI 304	2	-	GREASE PLUG	1/4" NPT	36A
ALSI 304	1 MTR	-	SUITABLE FOR 3/8" NPT	6314	37
SKF (C3 type clearance)	1	-	SEAL FLUSHING LINE	-	38
SKF	1	-	LOCK NUT (RH)	M16 14	39
SKF	1	-	LOCK WASHER	NB 14	40
Soft Packing Style R4604	10 RINGS	-	GLAND PACKING	16X16 MM SQ	41
Vegetable fibre	1	-	GASKET	-	42
Stainless Steel	1 SET (2 No)	-	BALL VALVE	-	43
ALSI 304	4	-	DOWEL PIN (BEARING BRACKET)	12x40	44
ALSI 304	2	-	DOWEL PIN (CASING)	12x75	45
ALSI 304	2	-	LOCK PIN (BEARING BRACKET)	8x50	46
ALSI 304	2	-	LOCK PIN FOR BRG. TO CLAMP	3/8" NPT	47
ALSI 304	2	-	PLUG	3/8" NPT	48
SS 304	1	-	STUFFING BOX BUSH	100 X 80 - 0.5 mm Plate Thickness	49
SS 304	1	-	NAME PLATE	-	



Datasheet For : 8HF24

	PARAMETERS	UNIT	VALUE
RATED DUTY	Capacity	M ³ /Hr	1134
	Total Head	Mt	96
	Speed	RPM	1500
	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.		8HF24
	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	610
	Impeller Diameter Min	mm	520
	Rotation		CW
PERFORMANCE DETAILS AS RATED DUTY	Efficiency	%	80
	Rated Speed	RPM	1500
	NPSHr	Mt	5.1
	Power Absorbed	kW	371
	Recommended Driver Power	kW	426
	Driver Details		4 Pole, 50 Hz, 3 Phase AC Induction Motor
MECHANICAL DATA	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
	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