

**NOTE- PERFORMANCE AS PER ISO 9906 GRADE-2B**

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PERFORMANCE CURVE OF 8HF15 @2950 R.P.M

8HF15/Y/802352

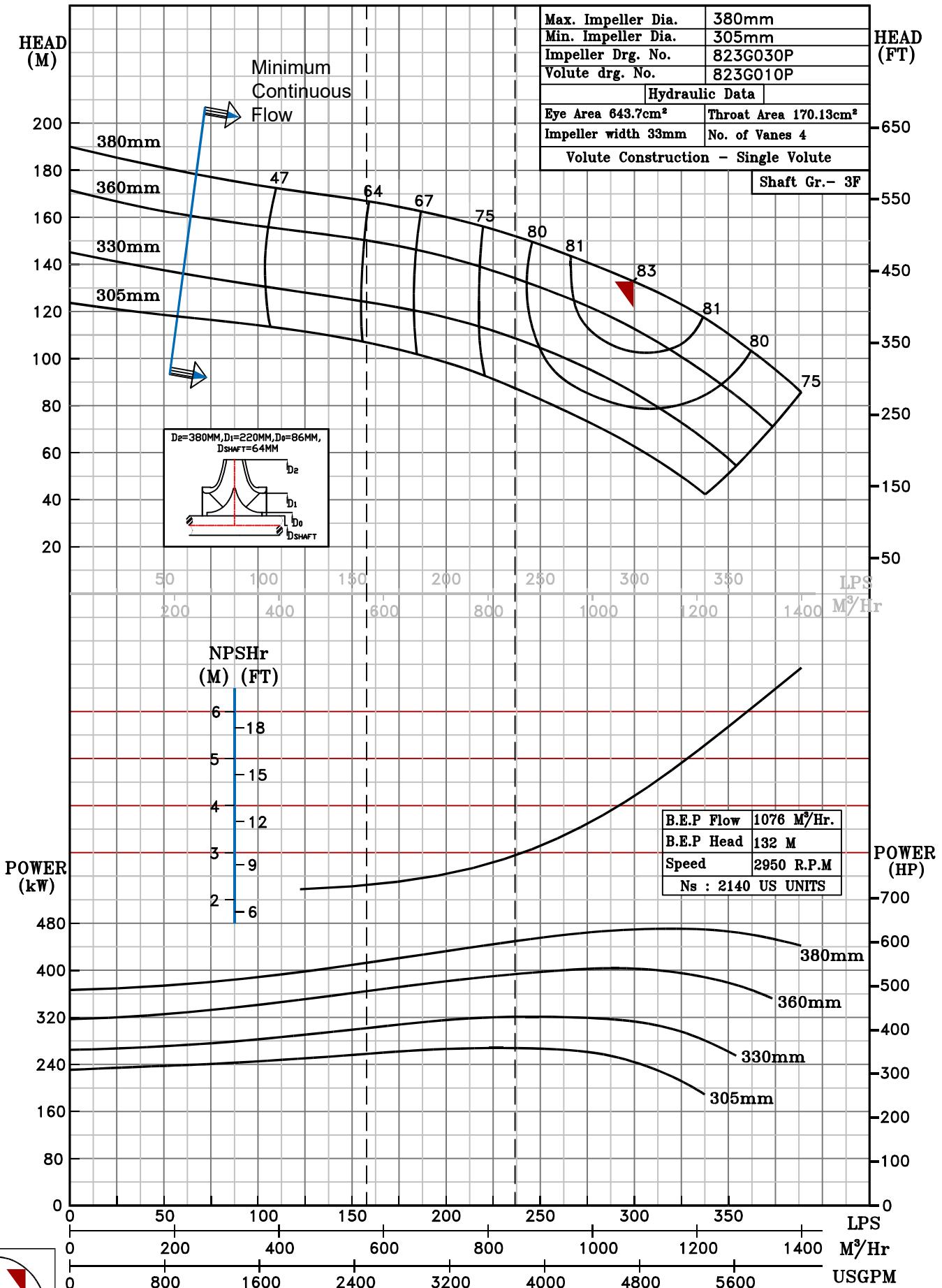


### *HF RANGE*

**RATED CAPACITY - 2500 USGPM**

<b>MODEL 8HF15</b>	WORKING PRESS.	18 bar
SIZE 300x200-380	TEST PRESS.	27 bar
<b>TYPE-AXIALLY SPLIT CASE SINGLE STAGE</b>		
	<b>SPEED 2950 rpm</b>	

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



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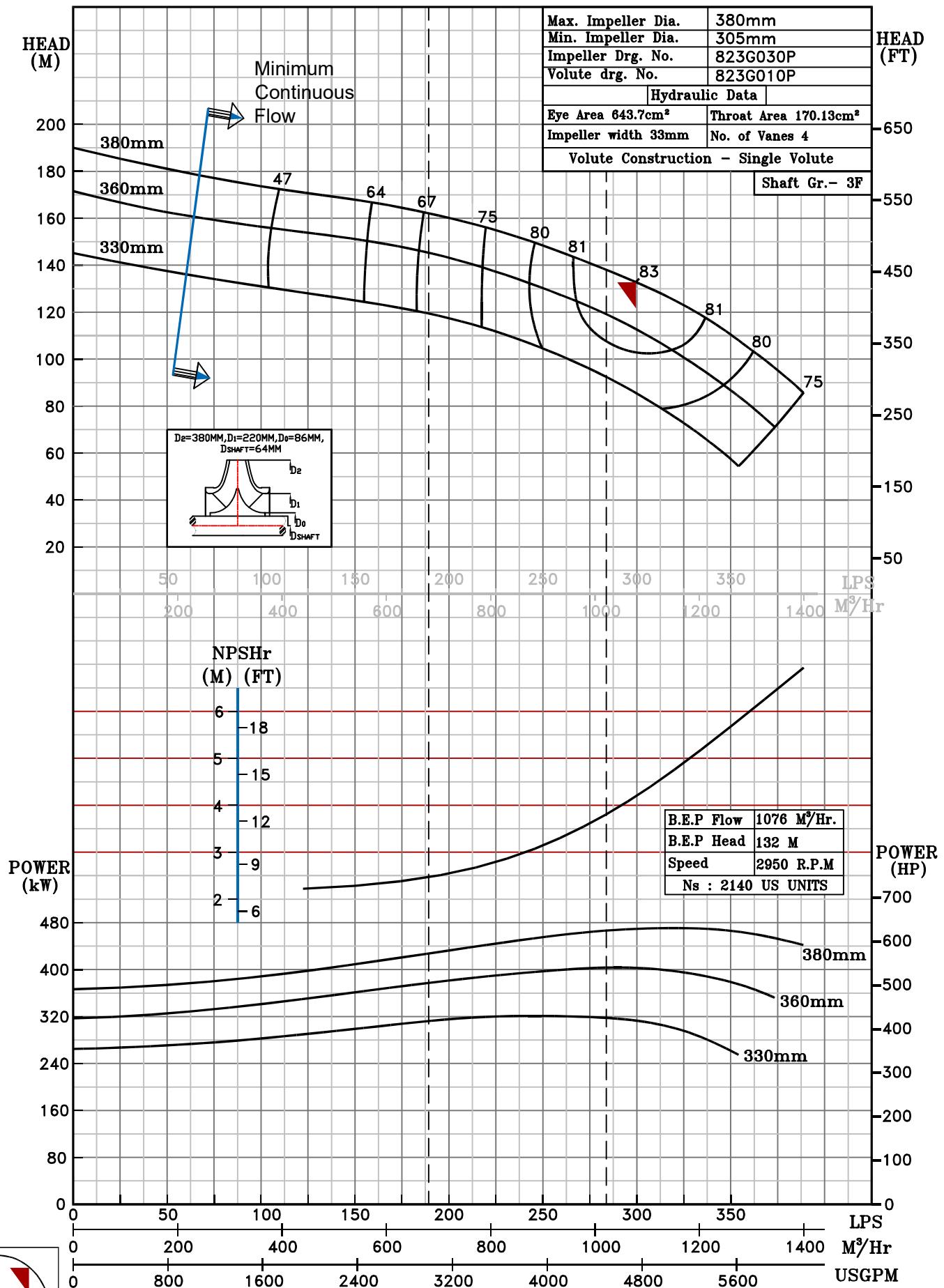


HF RANGE

RATED CAPACITY - 3000 USGPM

MODEL 8HF15	WORKING PRESS.	18 bar
SIZE 300x200-380	TEST PRESS.	27 bar
TYPE-AXIALLY SPLIT CASE SINGLE STAGE		
SPEED 2950 rpm		
DATE - 16.02.18		

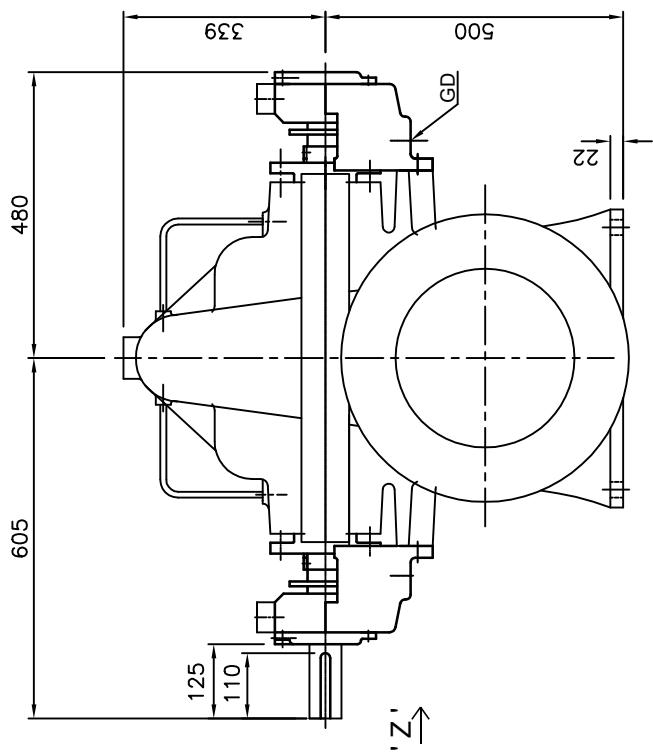
PUMP PERFORMANCE CHARACTERISTICS COMPUTED BASED ON CLEAN COLD WATER S.G 1.0



PUMP MODEL— 8HF15

GENERAL ARRANGEMENT DRAWING FOR SINGLE STAGE AXIALLY SPLIT CASE PUMP MODEL = 8HF15

THE JOURNAL OF CLIMATE



The technical drawing shows a rectangular component with a total width of 425 mm and a total height of 500 mm. It features two vertical slots: one on the left side with a width of 360 mm and a distance from the bottom of 260 mm, and another on the right side with a width of 82.5 mm and a distance from the bottom of 440 mm. There are four mounting holes, each with a diameter of 26 mm, located at the top and bottom corners of the main body. The overall width of the component is 425 mm.

PLAN OF PUMP FEET

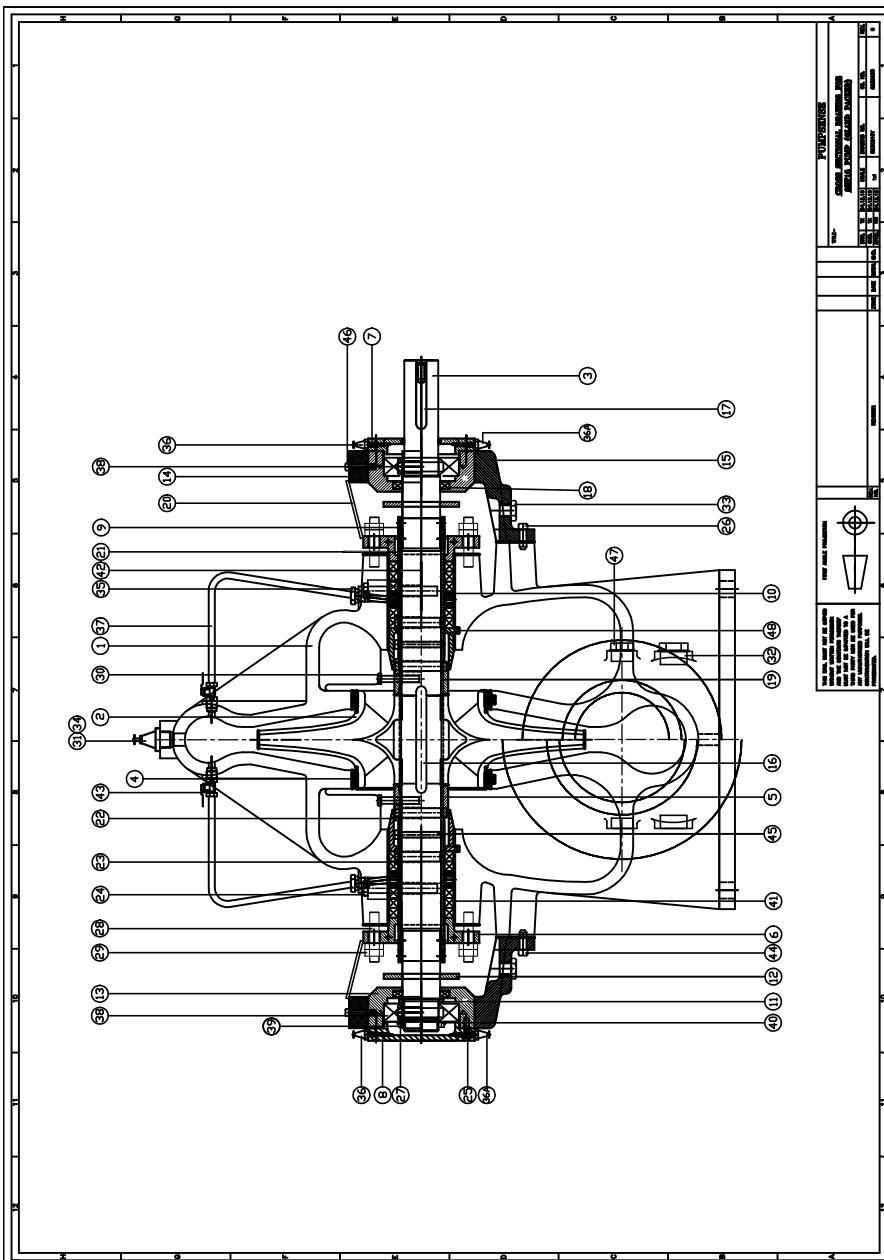
### VIEW IN DIRECTION OF Z,

APPROX. NET WEIGHT - 726 kg.  
ALL DIMENSIONS ARE IN MM.

CONNECTIONS			
ITEM	DESCRIPTION		SIZE(NPT)
GD	GLAND	DRAIN	3/4"
CG	COMPOUND	GAUGE FOR SUCTION	3/8"
PG	PRESSURE	GAUGE FOR DELIVERY	3/8"
AC	AIR COCK		3/8"
PM	PRIMING		1"
CDS	CASING	DRAIN(SUCTION SIDE)	3/4"
CDD	CASING	DRAIN(DELIVERY SIDE)	3/4"

		TITLE -		PUMPSENSE		DRAWING FOR 8HF15	
						SCALE 1:1	
						REV 0	
REV	DESCRIPTION	DRN	AD	03.08.17	DRG. NO.		
		CHKD	ST	03.08.17	PSF / 8HF15 / GA-01		
	DRN	CHKD APPD	HS	03.08.17			

Sl. No.	Part. No.	Name of Parts	Description	QTY	Materials	
					Cf FG 260 BS 1450	Bronze LG2 BS 1400
1	821831M	CASING	-	1 SET		
2	821020M	IMPELLER	-	1	Bronze LG2 BS 1400	
3	8231010	SHAFT	-	1	AST 410	
4	8231190	CASING WEAR RING	-	2	Bronze CT1 BS 1400	
5	8231502	SHAFIT SLEEVE	-	2	Bronze CT1 BS 1400 / AISI 316	
6	8231440	SPLIT GLAND	-	2	Bronze LG2 BS 1400	
7	8231340	BEARING END COVER (PE)	-	1	Cf FG 260 BS 1452	
8	8231310	BEARING END COVER (FE)	-	1	Cf FG 260 BS 1452	
9	8231460	SLEEVEE NUT(L.H. & R.H.)	-	2+2	Bronze CT1 BS 1400 / AISI 316	
10	8231492	LANTERN RING	-	2	Bronze LG2 BS 1400	
11	8231250	THRUST COLLAR	-	1	AST 304	
12	8231450	WATER THROWER	-	2	NEOPRENE	
13	8232565/8232705	BEARING HOUSING	-	2	Cf FG 260 BS 1452	
14	8232552	BRACKET TOP CLAMP	-	2	Cf FG 260 BS 1452	
15	8232540/8232710	BRACKET BRACKET	-	2	Cf FG 260 BS 1452	
16	8231800	IMPELLER KEY	-	1	AST 410	
17	8231380	COUPLING KEY	-	1	AST 410	
18	-	OIL SEAL (BEARING HOUSING)	60x90x10 Type B	2	NITRILE	
19	-	O-RING FOR SLEEVE	CS 03.5 - ID 62.9	2	VITON	
20	-	SHAFT GUARD	-	2	AST 304	
21	-	NAME PLATE SUPPORT	-	1	ALUMINIUM	
22	-	HEX HEAD SCREW	M30X98S	15	HHT	
23	-	HEX HEAD SCREW	M30X75	4	HHT	
24	-	HEX HEAD SCREW	M30X120	4	HHT	
25	-	HEX HEAD SCREW	M10X35	8-8	HHT	
26	-	HEX HEAD SCREW	M16X45	4-4	HHT	
27	-	HEX HEAD SCREW	M16X65	4	HHT	
28	-	STUD	M16X90	4	AST 316	
29	-	NUT	M16	4-4	AST 316	
30	-	HEX HEAD SCREW	M16X65	4	HHT	
31	-	PLUG	1" NPT	1	AST 304	
32	-	PLUG	3/4" NPT	2	AST 304	
33	-	PLUG	3/4" NPT	2	AST 304	
34	-	AIR COCK	3/8" NPT	1	AST 304	
35	-	OLIVE JOINT	3/8" NPT	2 SET (4 Nos)	-	
36	-	GREASE NIPPLE	1/4" NPT	2	AST 304	
36A	-	GREASE PLUG	1/4" NPT	2	AST 304	
37	-	SEAL FLUSHING LINE	SUITABLE FOR 3/8" NPT	1 MTR	AST 304	
38	-	BEARING	6311	2	SKF (C3 type clearance)	
39	-	LOCK NUT (RH)	KM 11	1	SKF	
40	-	LOCK WASHER	MB 11	1	SKF	
41	-	GLAND PACKING	16X16 MM SQ	10 RINGS	Soft Packing Style R804	
42	-	GASKET	-	1	Vegetable fibre	
43	-	BALL VALVE	-	1 SET (2 Nos)	Stainless Steel	
44	-	DOWEL PIN (BEARING BRACKET)	12X50	4	AST 304	
45	-	DOWEL PIN (CASING)	12X80	2	AST 304	
46	-	LOCK PIN (BRG. TOP CLAMP)	8X40	2	AST 304	
47	-	PLUG	3/8" NPT	2	AST 304	
48	-	STYLING BOY BUSH	8232600	2	Bronze LG2 BS 1400	



Datasheet For : 8HF15			
	PARAMETERS	UNIT	VALUE
<b>RATED DUTY</b>	Capacity	M³/Hr	1080
	Total Head	Mt	130
	Speed	RPM	2950
	Type of Pump		Horizontal Single Stage Pump
	Liquid		Clear Water
	Specific Gravity		1
	Temperature	°C	32
	Driver		Electric Motor
	No. Off		1
<b>PUMP DETAILS</b>	Make		<b>PUMPSENSE</b>
	Stages		Single Stage
	Model No.		<b>8HF15</b>
	Discharge	mm	200
	Flange Rating Discharge		ASME/ANSI B16.1 - Class 250
	Suction	mm	300
	Suction Flange Rating		ASME/ANSI B16.1 - Class 250
	Type of Casing		Single Volute
	Type of Impeller		Shrouded Double Entry
	Impeller Diameter Max	mm	380
	Impeller Diameter Min	mm	305
	Rotation		CW
<b>PERFORMANCE DETAILS AS RATED DUTY</b>	Efficiency	%	86
	Rated Speed	RPM	2950
	NPSHr	Mt	5
	Power Absorbed	kW	445
	Recommended Driver Power	kW	355
	Driver Details		4 Pole, 50 Hz, 3 Phase AC Induction Motor
<b>MECHANICAL DATA</b>	Bare Pump Weight	kg	726
	Shaft dia. at coupling	mm	54
	N.D.E. Bearing		1 X SKF 6311 C3
	D.E. Bearing		1 X SKF 6311 C3
	Casing		Cast Iron CI FG 260
<b>MATERIALS OF CONSTRUCTION</b>	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