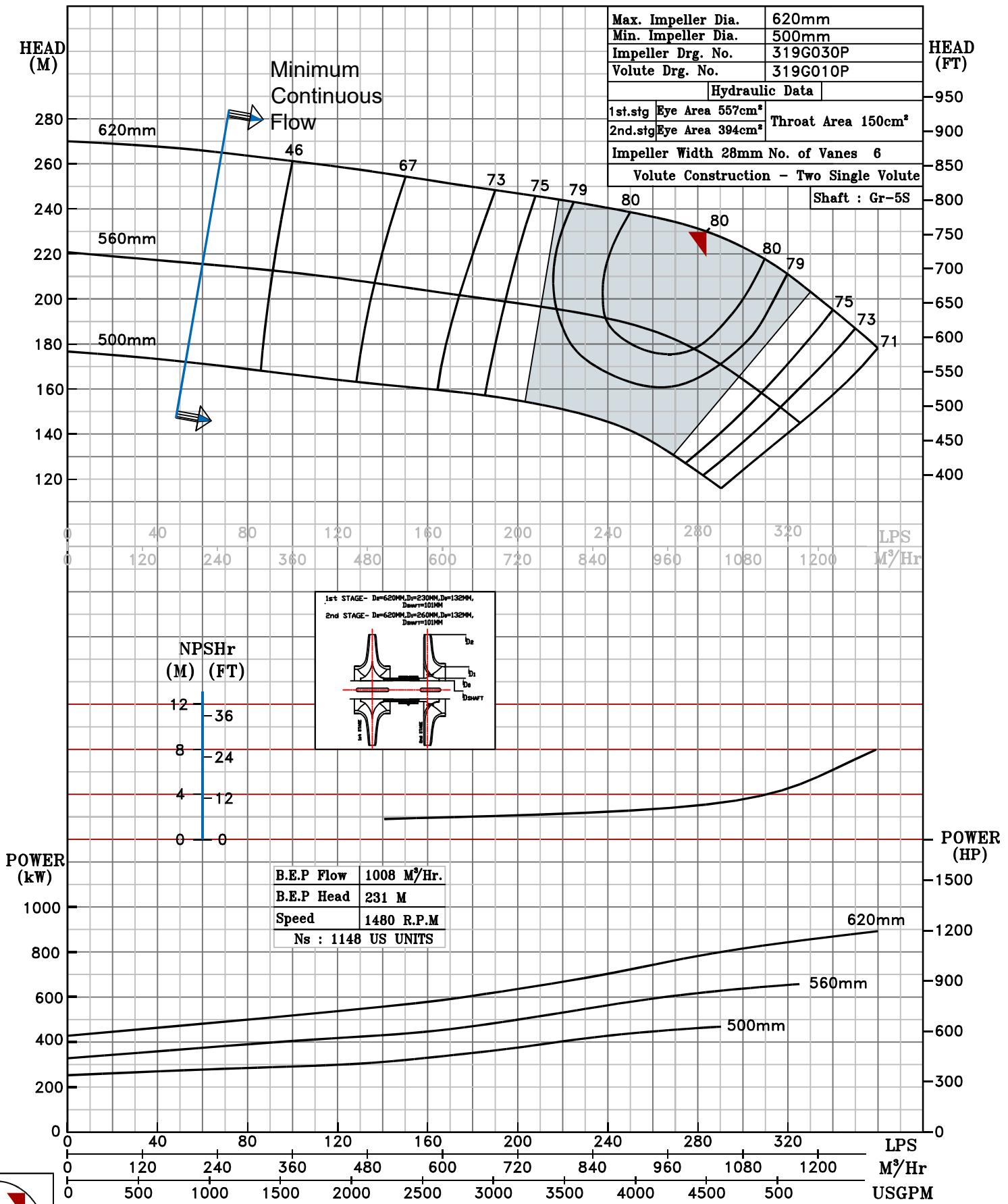


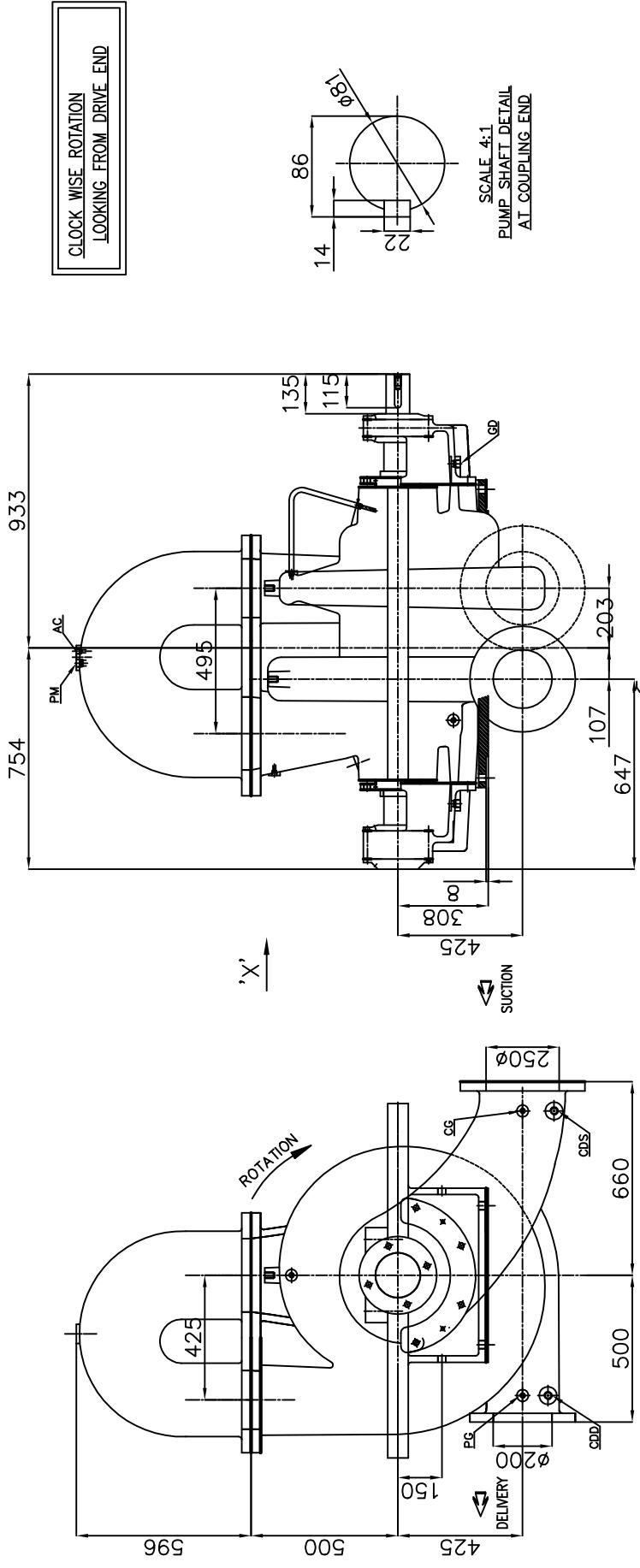
PERFORMANCE CURVE OF 8HSTD24 @1480 R.P.M		NOTE - PERFORMANCE AS PER ISO 9906 GRADE-2B 8HSTD24/X/301954	
<b>PUMPSENSE</b>		MODEL 8HSTD24	WORKING PRESS. 30 bar
		SIZE 250x200-620	TEST PRESS. 45 bar
TYPE-AXIALLY SPLIT CASE TWO STAGE			SPEED 1480 rpm
		DATE - 24.02.22	

SHADED REGION ON THE H-Q CURVE REPRESENTS OPTIMUM SELECTION ZONE

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



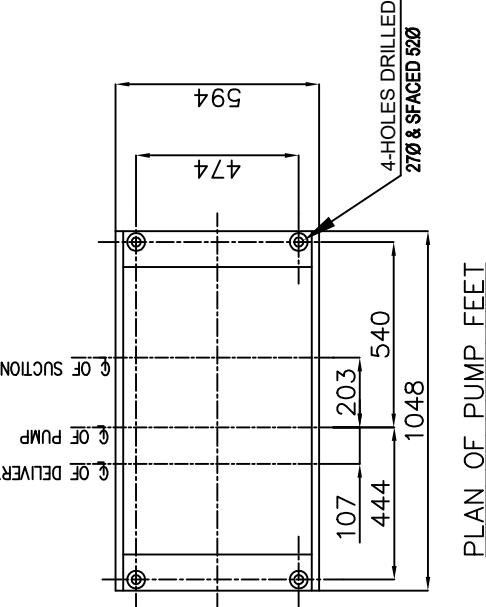
## GENERAL ARRANGEMENT DRAWING FOR TWO STAGE AXIALLY SPLIT-CASE PUMP MODEL - 8HSTD24



## NOTE:

1. ALL DIMENSIONS ARE IN MM.
2. BARE PUMP WEIGHT APPROX. - 2577 KG.

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



PUMPSENSE		TITLE		SCALE	
		SA DRAWING FOR FOR 8HSTD24		DRN AD 06.11.21	DRG NO. 327GA11Z
REF.	TYPE OF FLANGE	O.D. P.C.D.	THK	NO & MIN HOLE Ø	RF THK RF FLANGE
NO.					
SUC 250Ø	PN 25	425	370	32	12, 30Ø -
DEL 200Ø	PN 25	360	310	30	12, 26Ø -

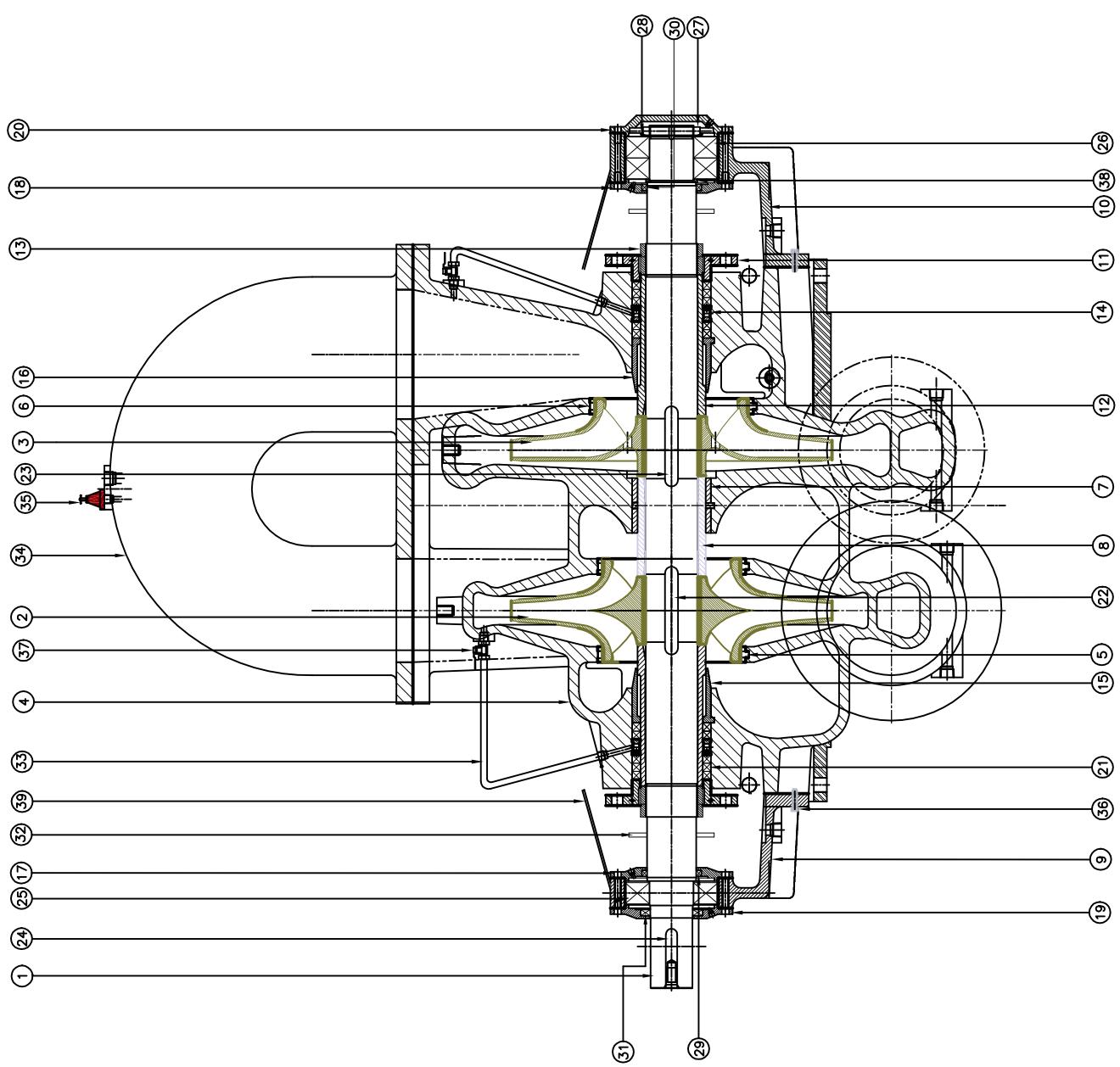
# PUMPSENSE FLUID ENGINEERING PVT LTD

**Datasheet For: 8HSTD24**

	<b>PARAMETERS</b>	<b>UNIT</b>	<b>VALUE</b>
<b>RATED DUTY</b>	Capacity	M <sup>3</sup> /hr	1008.0
	Total Head	Mt	231.0
	Speed	RPM	1480
	Type of Pump		Horizontal Two 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>
	Model No.		<b>8HSTD24</b>
	Stages		Two Stage
	Cross Over Design		External Cross Over Design
	Discharge	mm	200
	Flange Rating Discharge		PN 25 - BS EN 1092-2
	Suction	mm	250
	Suction Flange Rating		PN 25 - BS EN 1092-2
	Type of Casing		Double Volute
	Type of Impeller		One Double Suction Impeller & One Single Suction Impeller
	Impeller Diameter Max	mm	620
	Impeller Diameter Min	mm	500
	Rotation		CW
<b>PERFORMANCE DETAILS AS RATED DUTY</b>	Efficiency	%	80
	Rated Speed	RPM	1480
	NPSHr	Mt	3
	Power Absorbed	kW	793.1
	Recommended Driver Power	kW	952
	Driver Details		4 Pole, 50 Hz, 3 Phase AC Induction Motor
	Closed Valve Head (Approx.)	Mt	270
	Head Rise to Shut-Off Head	%	17
	Working Pressure	Bar	30
	Test Pressure	Bar	45
<b>MECHANICAL DATA</b>	Bare Pump Weight	kg	2577
	Shaft dia. at coupling	mm	81
	N.D.E. Bearing		2 X SKF BECBP 7317
	D.E. Bearing		1 X SKF 6317 C3
	Packing Size		16 x 16 - Soft Packing
<b>MATERIALS OF CONSTRUCTION</b>	Casing		Ductile Iron GGG 50
	External Cross Over		Ductile Iron GGG 50
	Impeller		ASTM A743 Gr CF 8M
	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
	Inter Stage Bush		Bronze SAE 660 ASTM B505
	Inter Stage Collar		ASTM A 276 Type 316
	Bearing Bracket		Cast Iron CI FG 260
	Split Gland		Leaded Gunmetal BS 1400 LG2
	Lantern Ring		Leaded Gunmetal BS 1400 LG2
	Stuffing Box		Gland Packed Fitted
	Packing		CARRARA Make Soft Packing Style R 4804
	Fastners		HTS GR. 10.9

SL.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	101
2	IMPELLER 1st STAGE (L.H.)	1	102-L
3	IMPELLER 2nd STAGE (R.H.)	1	102-R
4	CASING	1	183
5	CASING WEAR RING 1st STAGE (L.H.)	2	129-A
6	CASING WEAR RING 2nd STAGE (R.H.)	1	129-B
7	INTER STAGE BUSH	1	300
8	INTER STAGE SLEEVE	1	404
9	BEARING BRACKET (P.E)	1	254
10	BEARING BRACKET (F.E)	1	271
11	SPLIT GLAND	2	144
12	SHAFT SLEEVE	2	150
13	SLEEVE NUT (L.H & R.H)	2+2	146
14	LANTERN RING	2	149
15	STUFFING BOX BUSH (P.E)	1	260
16	STUFFING BOX BUSH (F.E)	1	292
17	BEARING END COVER INNER (P.E)	1	276
18	BEARING END COVER INNER (F.E)	1	277
19	BEARING END COVER OUTER (P.E)	1	134
20	BEARING END COVER OUTER (F.E)	1	133
21	GLAND PACKING	-	143
22	IMPELLER KEY 1st STAGE (L.H.)	1	180-A
23	IMPELLER KEY 2nd STAGE (R.H.)	1	180-B
24	COUPLING KEY	1	138
25	BEARING AT POWER END	1	272
26	BEARING AT FREE END	2	257
27	BEARING LOCK NUT	1	141
28	BEARING LOCK WASHER	1	142
29	OIL SEAL FOR END COVER INNER (P.E)	1	547
30	OIL SEAL FOR END COVER INNER (F.E)	1	548
31	OIL SEAL FOR END COVER OUTER (P.E)	1	549
32	WATER THROWER	2	145
33	WATER SEALING PIPE	2	118
34	EXTERNAL CROSS OVER	1	306
35	AIR COCK	1	114
36	DOWEL PIN FOR BEARING BRACKET	4	245
37	BALL VALVE	2	-
38	THRUST COLLAR	1	125
39	SHAFT GUARD	2	252

\*\* P.E - POWER END , F.E -FREE END.



NO.	DESCRIPTION	REF. MATL.			REF. NO.	WEIGHT.
		TYPE	SIZE	SCAL.		
PUMPSENSE 8-HSTD24 PUMP						
1	SHAFT					
2	IMPELLER 1st STAGE (L.H.)					
3	IMPELLER 2nd STAGE (R.H.)					
4	CASING					
5	CASING WEAR RING 1st STAGE (L.H.)					
6	CASING WEAR RING 2nd STAGE (R.H.)					
7	INTER STAGE BUSH					
8	INTER STAGE SLEEVE					
9	BEARING BRACKET (P.E)					
10	BEARING BRACKET (F.E)					
11	SPLIT GLAND					
12	SHAFT SLEEVE					
13	SLEEVE NUT (L.H & R.H)					
14	LANTERN RING					
15	STUFFING BOX BUSH (P.E)					
16	STUFFING BOX BUSH (F.E)					
17	BEARING END COVER INNER (P.E)					
18	BEARING END COVER INNER (F.E)					
19	BEARING END COVER OUTER (P.E)					
20	BEARING END COVER OUTER (F.E)					
21	GLAND PACKING					
22	IMPELLER KEY 1st STAGE (L.H.)					
23	IMPELLER KEY 2nd STAGE (R.H.)					
24	COUPLING KEY					
25	BEARING AT POWER END					
26	BEARING AT FREE END					
27	BEARING LOCK NUT					
28	BEARING LOCK WASHER					
29	OIL SEAL FOR END COVER INNER (P.E)					
30	OIL SEAL FOR END COVER INNER (F.E)					
31	OIL SEAL FOR END COVER OUTER (P.E)					
32	WATER THROWER					
33	WATER SEALING PIPE					
34	EXTERNAL CROSS OVER					
35	AIR COCK					
36	DOWEL PIN FOR BEARING BRACKET					
37	BALL VALVE					
38	THRUST COLLAR					
39	SHAFT GUARD					

NO.	DESCRIPTION	TYPE	SIZE	SCAL.	DRAWING NO.	PAGE NO.	REV.
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