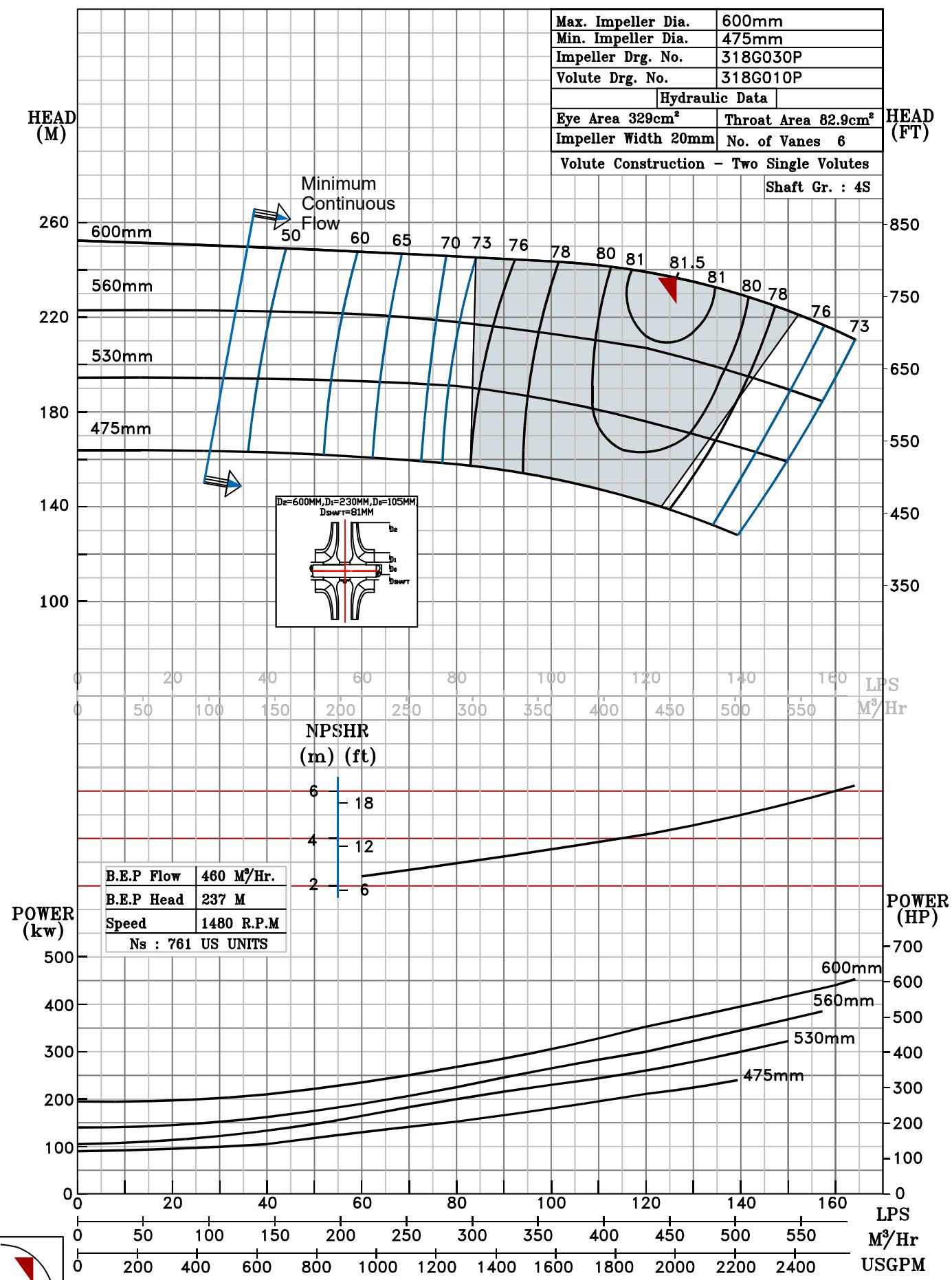


PERFORMANCE CURVE OF 6HST24 @1480 R.P.M		NOTE - PERFORMANCE AS PER ISO 9906 GRADE-2B 6HST24/X/301854	
<b>PUMPSENSE</b>		MODEL 6HST24	WORKING PRESS. 30 bar
		SIZE 200x150-600	TEST PRESS. 45 bar
TYPE-AXIALLY SPLIT CASE TWO STAGE			SPEED 1480 rpm
SHADED REGION ON THE H-Q CURVE REPRESENTS OPTIMUM SELECTION ZONE		DATE - 04.10.23	

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



NOTE - PERFORMANCE AS PER ISO 9906 GRADE-2B

## PERFORMANCE CURVE OF 6HST24 @1780 R.P.M

6HST24/X/301864

HST RANGE

MODEL 6HST24

WORKING PRESS. 40 bar

SIZE 200x150-600

TEST PRESS. 60 bar

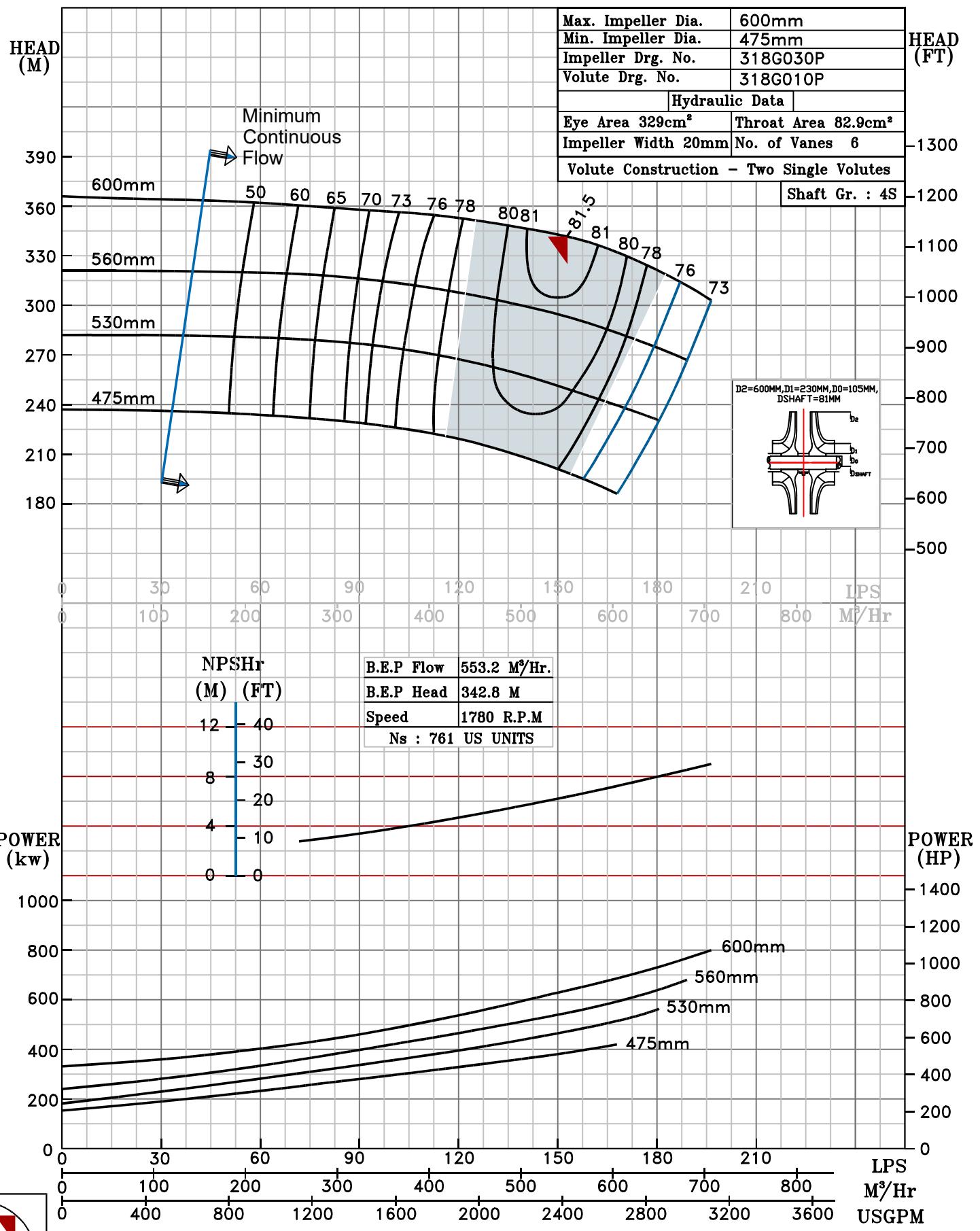
TYPE-AXIALLY SPLIT CASE TWO STAGE

SPEED 1780 rpm

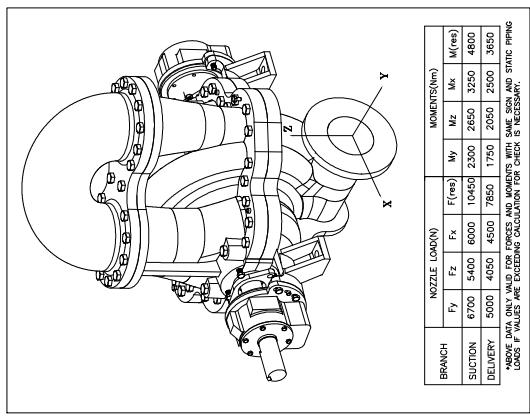
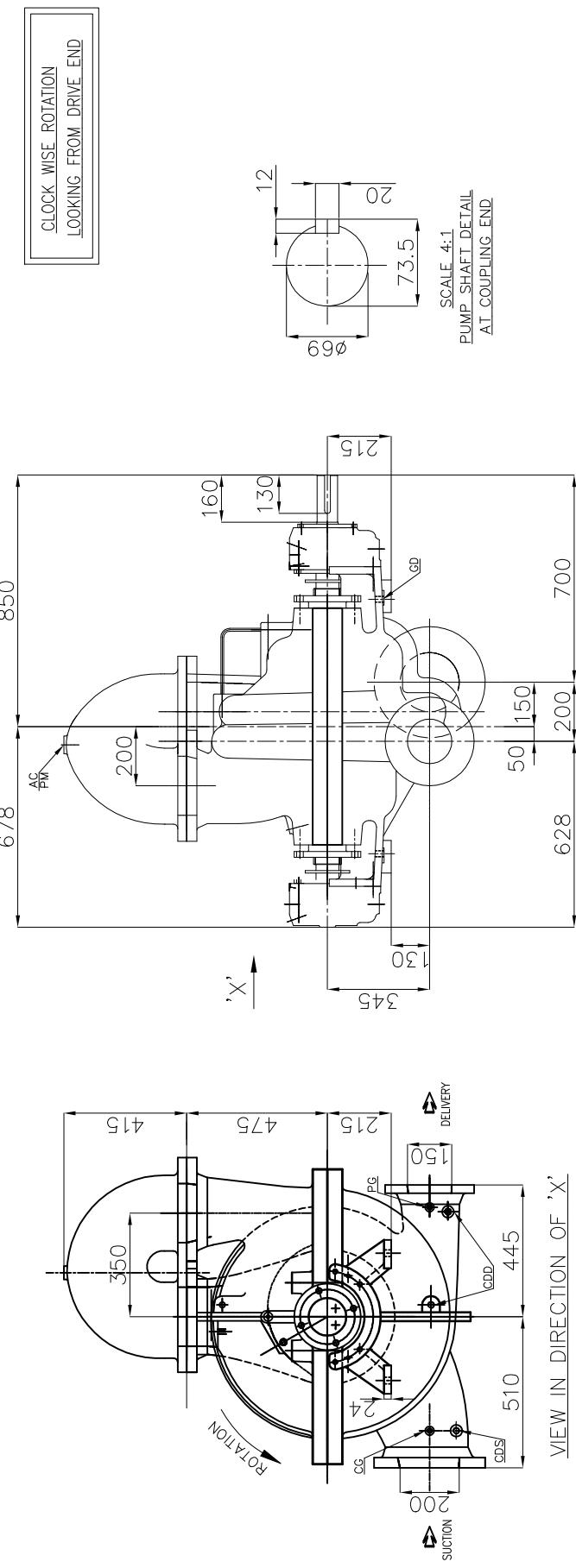
DATE - 10.12.14

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

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



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CONNECTIONS		SIZE(NPT)
ITEM	DESCRIPTION	
GD	GLAND DRAIN	1/2"
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)	1/2"
CDD	CASING DRAIN(DELIVERY SIDE)	1/2"

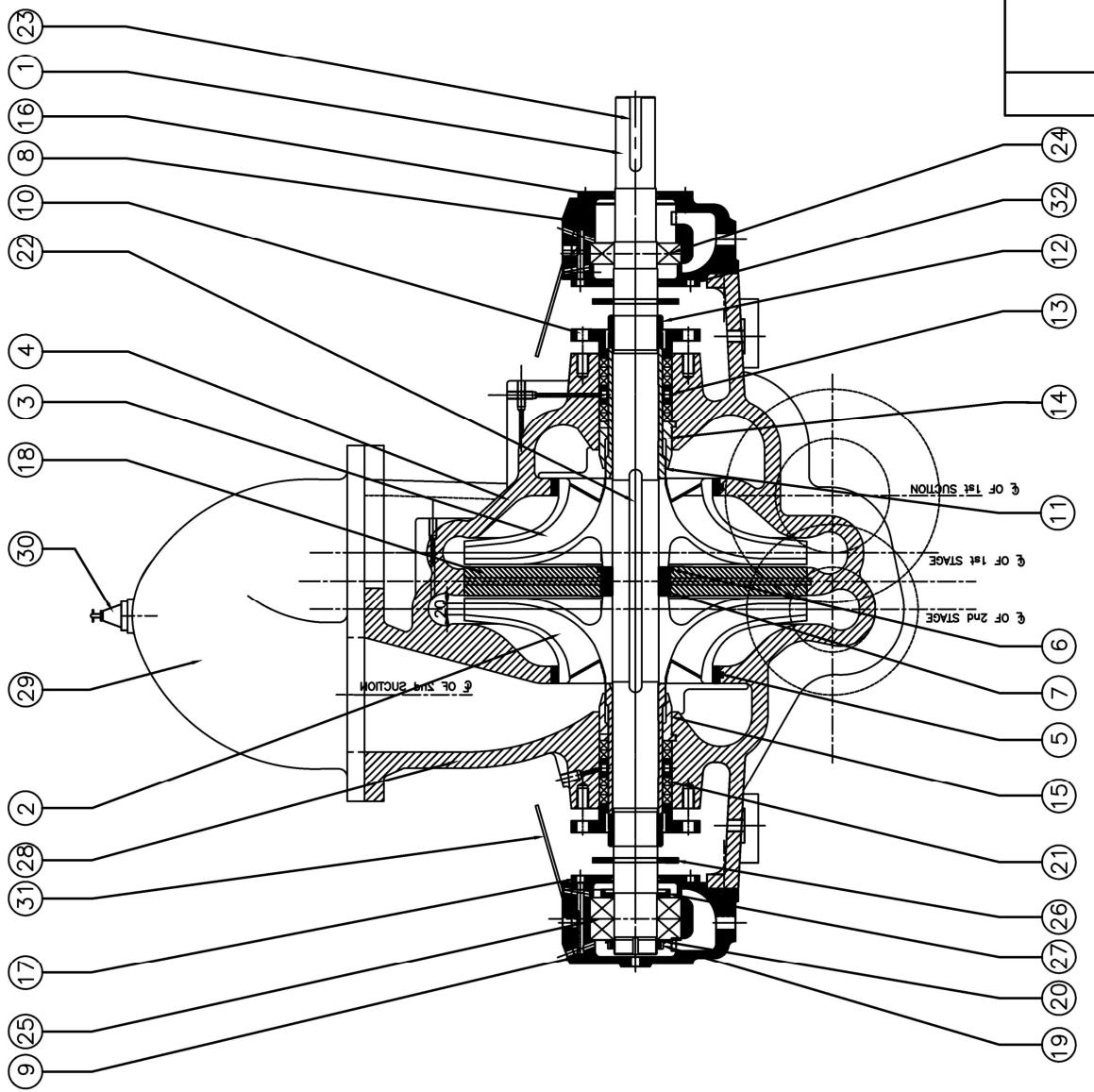
**NOTE:** 1. ALL DIMENSIONS ARE IN MM.  
2. BARE PUMP WEIGHT APPROX. 1370 KG.

# PUMPSENSE FLUID ENGINEERING PVT LTD

Datasheet For: 6HST24

	PARAMETERS	UNIT	VALUE
<b>RATED DUTY</b>	Capacity	M <sup>3</sup> /hr	553.0
	Total Head	Mt	349.0
	Speed	RPM	1780
	Type of Pump		Horizontal Two Stage Pump
	Liquid		Clear Water
	Specific Gravity		1
	Temperature	°C	32
	Driver		Diesel Engine
	No. Off		1
<b>PUMP DETAILS</b>	Make		<b>PUMPSENSE</b>
	Model No.		<b>6HST24</b>
	Stages		Two Stage
	Cross Over Design		External Cross Over Design
	Discharge	mm	150
	Flange Rating Discharge		PN 25 - BS EN 1092-2
	Suction	mm	200
	Suction Flange Rating		PN 25 - BS EN 1092-2
	Type of Casing		Single Volute
	Type of Impeller		Two Shrouded Single Entry - Axially Balance
	Impeller Diameter Max	mm	600
	Impeller Diameter Min	mm	475
	Rotation		CW
<b>PERFORMANCE DETAILS AS RATED DUTY</b>	Efficiency	%	81.5
	Rated Speed	RPM	1780
	NPSH <sub>r</sub>	Mt	6.1
	Power Absorbed	kW	645.2
	Recommended Driver Power	kW	774
	Driver Details		Diesel Engine @ 1800 RPM
	Closed Valve Head (Approx.)	Mt	368
	Head Rise to Shut-Off Head	%	5
	Working Pressure	Bar	40
	Test Pressure	Bar	60
<b>MECHANICAL DATA</b>	Bare Pump Weight	kg	1370
	Shaft dia. at coupling	mm	69
	N.D.E. Bearing		2 X SKF BECBP 7315
	D.E. Bearing		1 X SKF 6315
	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

## SPLIT-CASE PUMP WITH EXTERNAL CROSS OVER (SINGLE ENTRY IMPELLER)



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	2	129
6	INTER STAGE BUSH	1	300
7	INTER STAGE COLLAR	1	301
8	BEARING BRACKET (P.E)	1	254
9	BEARING BRACKET (F.E)	1	271
10	SPLIT GLAND	2	144
11	SHAFT SLEEVE	2	150
12	SLEEVE NUT (L.H & R.H)	2+2	146
13	LANTERN RING	2	149
14	STUFFING BOX BUSH (P.E)	1	260
15	STUFFING BOX BUSH (F.E)	1	292
16	BEARING END COVER OUTER (P.E)	1	134
17	BEARING END COVER INNER (F.E)	1	277
18	INTER STAGE RING PLATE	1	428
19	BEARING LOCK NUT	1	141
20	BEARING LOCK WASHER	1	142
21	GLAND PACKING	-	143
22	IMPELLER KEY	1	180
23	COUPLING KEY	1	138
24	BEARING AT POWER END	1	272
25	BEARING AT FREE END	2	257
26	WATER THROWER	2	145
27	THRUST COLLAR	1	125
28	WATER SEALING PIPE	2	118
29	EXTERNAL CROSS OVER	1	306
30	AIR COCK	1	114
31	SHAFT GUARD	2	252
32	BEARING END COVER INNER (P.E)	1	276

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

PUMPSENSE FLUID ENGG. PVT. LTD.			
TITLE— CROSS SECTIONAL FOR 6HS124 TWO STAGE SPLIT-CASE PUMP		SCALE: FULL	
		REV. 0	
REV.	DESCRIPTION	DRN	AD
		CHKD	26/05/17
		ST	26/05/17
		APPD	26/05/17
		DATE	31/05/10Y
REV.	DESCRIPTION	DRN	CHKD