

NOTE- PERFORMANCE AS PER ISO 9906 GRADE-2B

PERFORMANCE CURVE OF 6HSTT23 @1480 R.P.M

6HSTT23/Y/0111



PUMPSENSE

HS RANGE

MODEL 6HSTT23

WORKING PRESS. 40 bar

SIZE 200x150-585

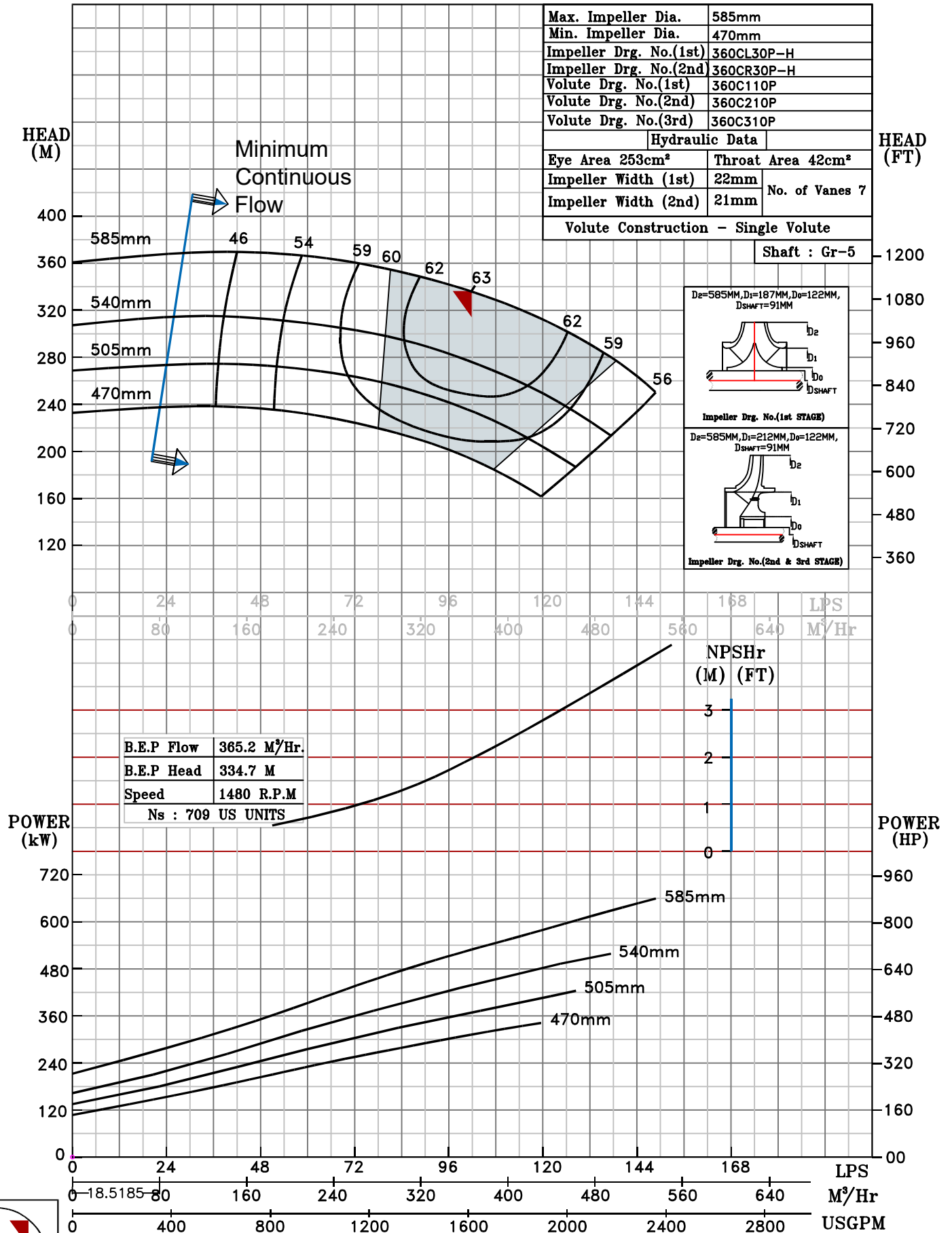
TEST PRESS. 60 bar

TYPE-AXIALLY SPLIT CASE THREE STAGE

SPEED 1480 rpm

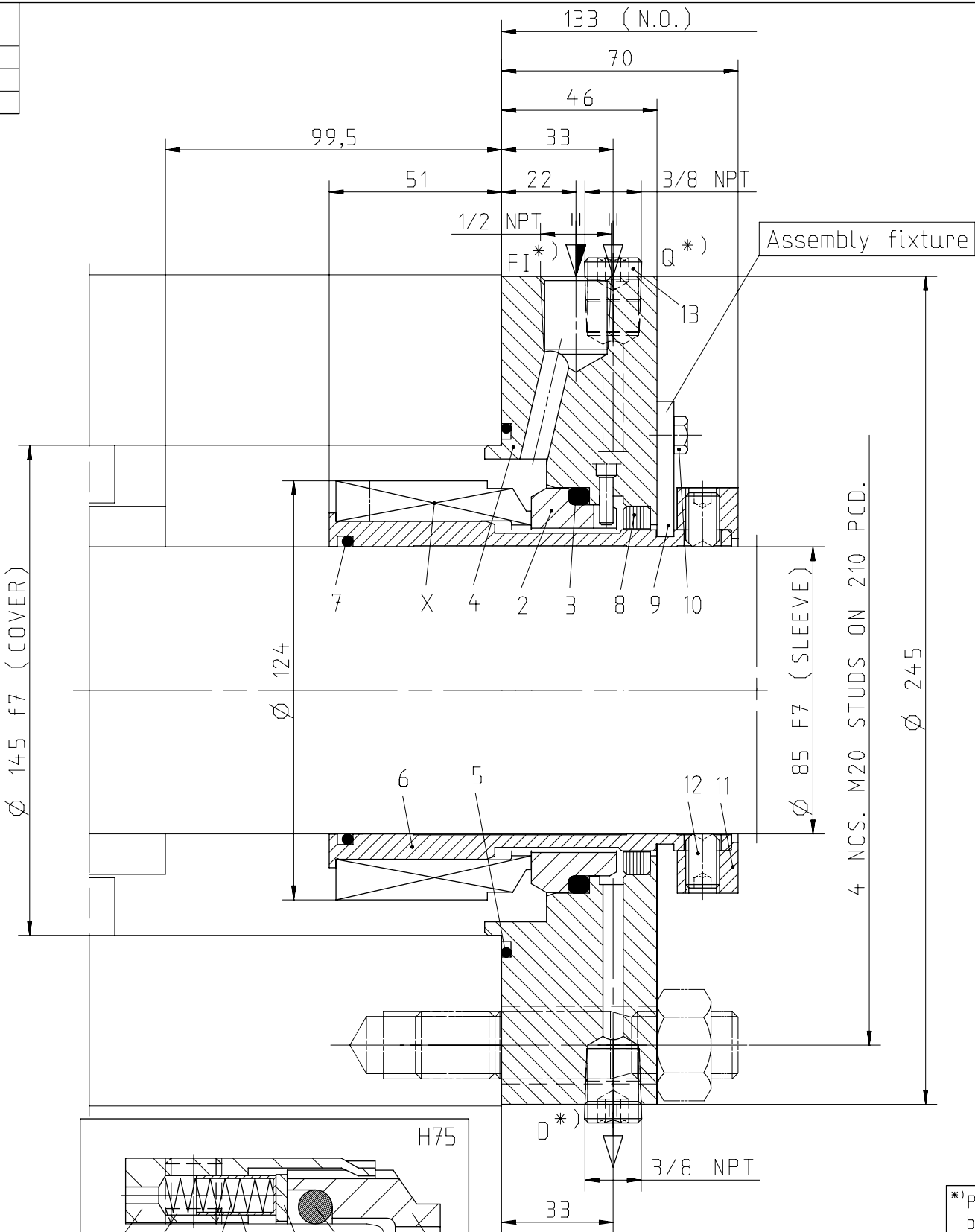
SHADED REGION ON THE H-Q CURVE REPRESENTS OPTIMUM SELECTION ZONE

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

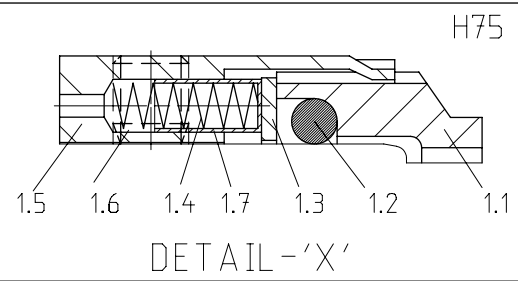


1480 RPM

API Plan	Fluid	Flow lpm	Temp. °C	Pressure kgf/cm2
11	Pumping Fluid	6-8	Amb.	-
-	-	-	-	-
61	-	-	-	-

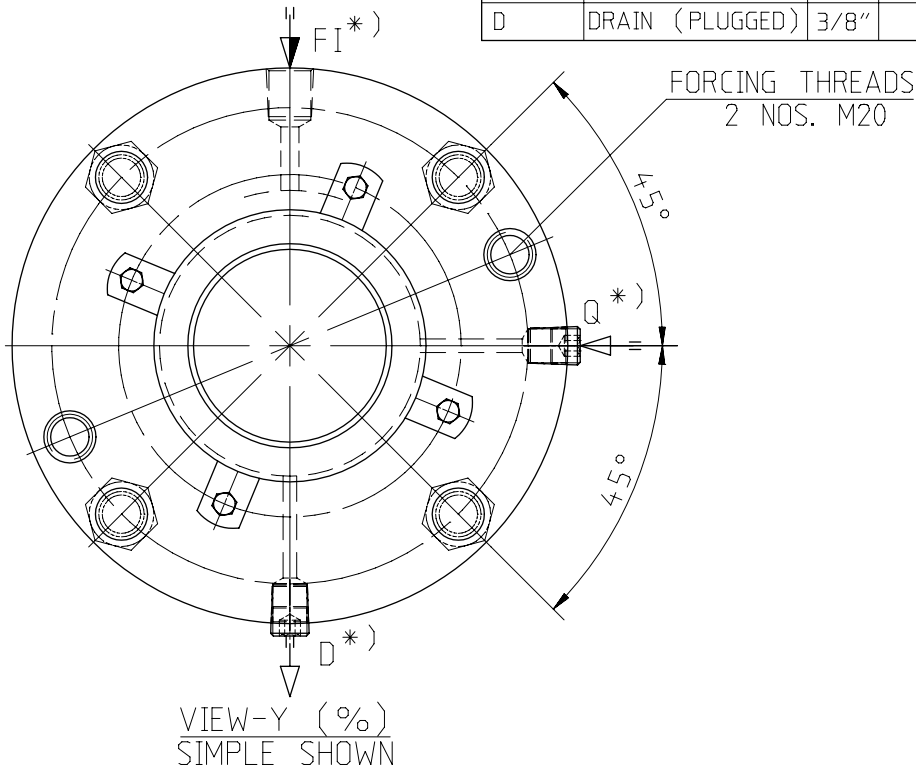


NOTES :
1. '##' CUSTOMER TO PROVIDE.




*) Pipe connections marked by stamp letters
max. allowed axial movement of the shaft to the housing ± 3 mm

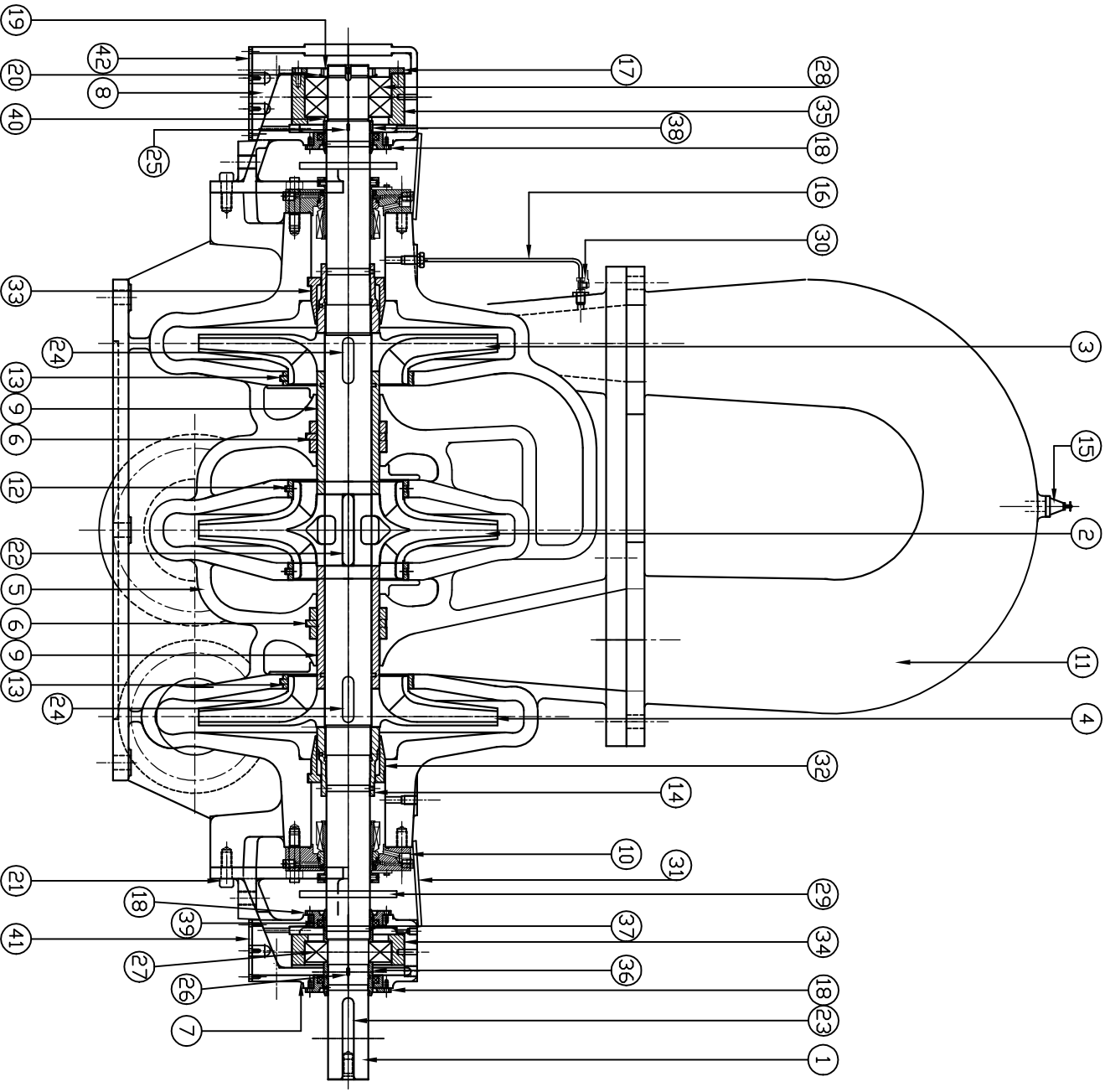
CONNECTION DETAILS			
SYMBOL	FUNCTION	NPT	API PLANS
FI	FLUSH IN	1/2"	11
Q	QUENCH (PLUGGED)	3/8"	61
D	DRAIN (PLUGGED)	3/8"	61



CAUTION: ASSEMBLY FIXTURE (PART NO. 9) TO BE REMOVED OR SWUNG OUT AFTER FINAL ASSY. & BEFORE START UP.

POS.	DESCRIPTION	MATERIAL	QTY
* 13	PLUG	SS316	2
* 12	SET SCREW	A4-70 (SS316)	8
11	SET RING	SS316	1
* 10	HEX. SCREW	A4-70 (SS316)	4
9	ASSEMBLY FIXTURE	SS316	4
* 8	THROTTLE BUSH	T3	1
* 7	'O' RING	P (NITRILE)	1
6	SLEEVE	SS316	1
* 5	'O' RING	P (NITRILE)	1
4	GLAND	SS316	1
* 3	'O' RING	P (NITRILE)	1
* 2	SEAT	BUKA 22 (SiC)	1
* 1.7	SPRING SLEEVE	SS316	12
* 1.6	SET SCREW	A4-70 (SS316)	2
1.5	DRIVE COLLAR	SS316	1
* 1.4	SPRING	SS316Ti	12
1.3	THRUST RING	SS316	1
* 1.2	'O' RING	P (NITRILE)	1
* 1.1	SEAL FACE	BUKA 22 (SiC)	1

Customer	PUMPSENSE FLUID ENGINEERING.	Parameter	Rat.	Max.	API 682 Code				No.	Modification	Date	Name		Date	Name	<div>EagleBurgmann.[®] EagleBurgmann India Pvt. Ltd.</div>				
P.O. NO & Date	.	Suc. Pr. Bar (g)	.	10	API 610 Code				Drawn By	12/08/2021	SHRIKRISHNA					
End User	R. K. ENGINEERING SALES LTD.	Dis. Pr. Bar (g)	.	30	Eqpt. Make	PUMPSENS				.	.	.	Checked By	12/08/2021	MAHNEDRA					
Project	MUSSORIE PROJECT	Vap. Pr. Bar (g)	.	.	Eqpt. Type	6HSTT23				.	.	.	Approved By	12/08/2021	SALDANHA					
Service	RAW WATER PUMP	Box. Pr. Bar (g)	.	20	Bkt. Size	Scale	1:1		Type	Size	Code		
Eqpt. NO.	.	Temp. (°C)	.	Amb.	Eqpt. Size	##				.	.	.	MECHANICAL SEAL	I.B.	H75N	95	Q1Q1PGG			
OEM W.O. NO.	.	Visc.	##	##	Speed(rpm)	1480	DOR from D.E.	##	.	.	.	O.B.		.	.	.				
DOR NO.	C4220	Media	RAW WATER							.	.	.	Drg. No.	09-H75N/95-E25				Rev.	Issue	Ref No.
S.O. NO.	.	Abrasive (%)	.		Sp.Gr.	##	Cooling Plan	.	Originated from - Ref. Drg. No.			Replacement for				All dimensions are in mm		CAD		
	o Customer's Supply	* Recommended Spares			Parts not numbered are Customer's supply				AS PER PROVIDED ST. BOX				If in doubt ask.				A3			



S.L.NO.	DESCRIPTION	QTY.	PART NO.
1	SHAFT	1	153
2	IMPELLER 1st STAGE DOUBLE ENTRY	1	102-L/S
3	IMPELLER 2nd STAGE (R.H.)	1	102-R/S
4	IMPELLER 3rd STAGE (L.H.)	1	102-TS/S
5	CASING	1SET	103
6	INTER STAGE BUSH	2	300
7	BEARING BRACKET (P.E)	1	254
8	BEARING BRACKET (F.E)	1	271
9	INTER STAGE SLEEVE	2	404
10	BALANCED CARTRIDGE MECHANICAL SEAL	2	151
11	EXTERNAL CROSS OVER	1	306
12	FIRST STAGE CASING WEAR RING	2	220
13	SECOND & THIRD STAGE CASING WEAR RING	1+1	222
14	EXTENDED IMPELLER NUT	2	302
15	AIR COCK	1	114
16	WATER SEALING PIPE	2	118
17	BEARING END COVER OUTER (F.E)	1	133
18	BEARING END COVER P.E (INNER & OUTER) & F.E (INNER)	2+1	276
19	BEARING LOCK NUT	1	141
20	BEARING LOCK WASHER	1	142
21	DOWEL PIN FOR BEARING BRACKET	4	--
22	FIRST STAGE IMPELLER KEY	1	137-1S
23	COUPLING KEY	1	138
24	SECOND & THIRD STAGE IMPELLER KEY	1+1	137-2S
25	NON DRIVE END SLEEVE KEY	1	442
26	DRIVE END COUPLING END KEY FOR SLEEVE	1	443
27	BEARING AT POWER END	1	272
28	BEARING AT FREE END	2	257
29	WATER THROWER	2	145
30	BALL VALVE	1	-
31	SHAFT GUARD	2	252
32	STUFFING BOX BUSH (P.E)	1	260
33	STUFFING BOX BUSH (F.E)	1	292
34	BEARING SLEEVE (P.E)	1	444
35	BEARING SLEEVE (F.E)	1	445
36	OIL SEAL SLEEVE AT COUPLING END (OE) OUTER	1	439
37	OIL SEAL SLEEVE AT COUPLING END (OE) INNER	1	440
38	OIL SEAL SLEEVE AT THRUST END (NDE) INNER	1	441
39	OIL SEAL FOR END COVER(95X120X12)	3	--
40	THRUST COLLAR	1	125
41	COVER PLATE FOR BEARING HOUSING (DE)	1	446
42	COVER PLATE FOR BEARING HOUSING (NDE)	1	447

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

THIS DRAWING MUST NOT BE CONSIDERED A SUBSTITUTE FOR THE MANUFACTURER'S INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN THE NECESSARY INFORMATION FROM THE MANUFACTURER'S LITERATURE AND TO FOLLOW THE INSTRUCTIONS CAREFULLY. THE MANUFACTURER'S INSTRUCTIONS WILL BE USED FOR ANY DIMENSIONAL CHANGES. THE MANUFACTURER'S INSTRUCTIONS WILL BE USED FOR ANY DIMENSIONAL CHANGES.

UNIT	CONVERSION	UNIT	CONVERSION
INCH	25.4	MM	0.03937
FEET	304.8	MM	0.003281
POUNDS	4.448	KG	0.002205
TONS	2204.6	KG	0.001102
GALLONS	3.785	LITERS	0.000264
BARREL	42.47	LITERS	0.001626
DEGREE	0.01746	RADIANS	0.000573
MINUTE	0.000291	RADIANS	9.26E-05
SECOND	4.85E-05	RADIANS	1.57E-05

PERF. MADE PRODUCTION

DATE

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BY

CHK

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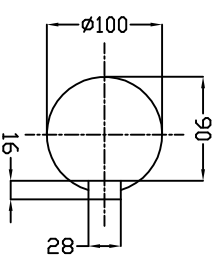
CROSS SECTIONAL DRAWING FOR GHST23 PUMP

DATE: 12/24/11 SCALE: 1:1 DRAWING NO.: 3000-001-01 REVISION NO.: 0

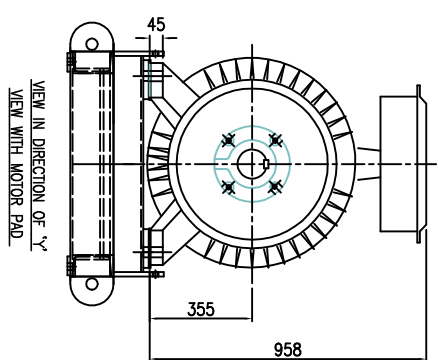
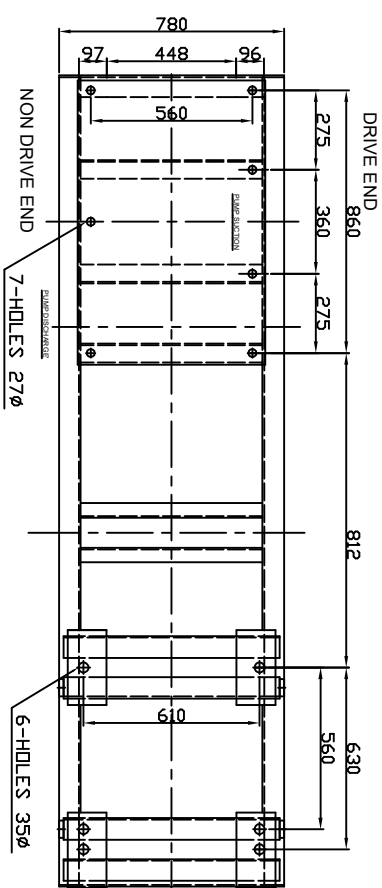
PUMPSENSE FLUID ENGINEERING PVT LTD

Datasheet For : 6HSTT23

	PARAMETERS	UNIT	VALUE
RATED DUTY	Capacity	M ³ /Hr	365
	Total Head	Mt	335
	Speed	RPM	1480
	Type of Pump		Axially Split Case Three Stage Pump
	Liquid		Clear Water
	Specific Gravity		1
	Temperature	°C	32
	Driver		Electric motor
PUMP DETAILS	Make		PUMPSENSE
	Stages		Three Stage
	Model No		6HSTT23
	Discharge	mm	150
	Flange Rating Discharge		PN 40
	Suction	mm	200
	Suction Flange Rating		PN 40
	Type of Casing		Single Volute
	Type of Impeller		Two Shrouded Single Entry & One Shrouded Double Entry
	Impeller Diameter Max	mm	585
	Impeller Diameter Min	mm	470
	Rotation		CW
PERFORMANCE DETAILS AS RATED DUTY	Efficiency	%	63
	Rated Speed	RPM	1480
	NPSHr	m	2.1
	Power Absorbed	kW	528.85
	Recommended Driver Power	kW	650
	Driver Details		4 Pole, 50 Hz, 3 Phase AC Induction Motor
MECHANICAL DATA	Bare Pump Weight	kg	2,976
	Shaft dia. at coupling	mm	79
	N.D.E. Bearing		2 X SKF BECBP 7316
	D.E. Bearing		1 X SKF 6316
	Mechanical Seal	mm	85 mm Balanced Cartridge Mechanical Seal
MATERIALS OF CONSTRUCTION	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
	Inter Stage Bush		Bronze SAE 660 ASTM B505
	Inter Stage Collar		ASTM A 276 Type 316
	Bearing Bracket		Cast Iron CI FG 260
	Shaft		ASTM A 276/ A 182 Type 410
	Impeller nut		ASTM A 276 Type 316
	Mechanical Seal		85 mm Balanced Cartridge Seal - EBIL/ AES/ John Crane
	Fasteners		HTS GR. 10.9

[illegible]

APPROXIMATE WEIGHTS IN KGs	
PUMP	3000
MOTOR	2140
BED PLATE	-
Coupling	20
TOTAL WEIGHT	-
MOTOR DETAILS	
MAKE	ABB
TYPE	TEFC.
KW	375
FRSIZE	350ML
SPEED	1460 RPM.



CONNECTIONS									
ITEM	DESCRIPTION	SIZE(NPT)							
G0	GLAND DRAIN	1"							
G8	COMPOUND GAUGE FOR SUCTION	3/8"							
P8	PRESSURE GAUGE FOR DELIVERY	3/8"							
A6	AIR COCK	1/2"							
PM	PRIMING	3/4"							
CDS	CASING DRAIN(SUCTION SIDE)	1/2"							
CDD	CASING DRAIN(DELIVERY SIDE)	1/2"							

** HAVE CONNECTIONS MADE AND TESTED ONLY WHEN SPECIFICALLY REQUESTED BY THE CUSTOMER.

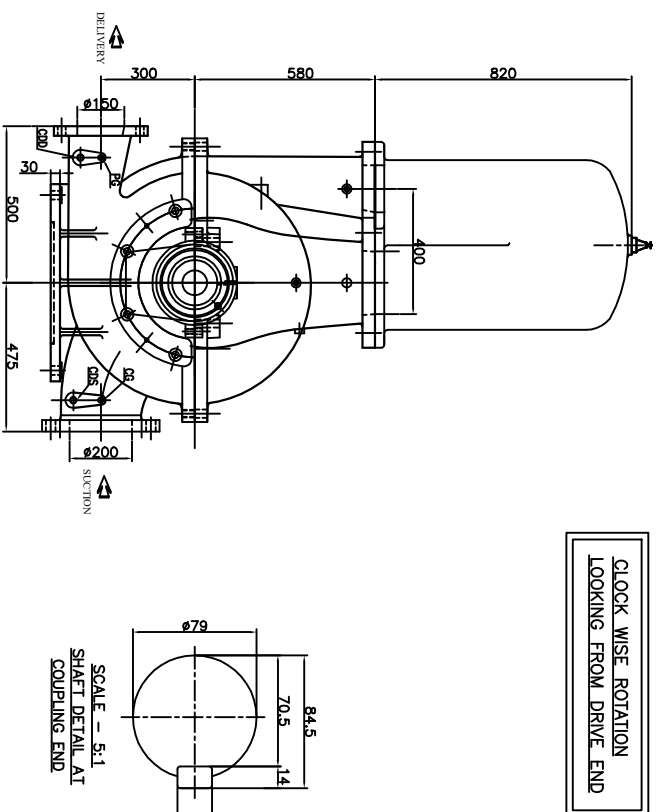
PLAN VIEW OF BASE PLATE

S	PN 40	375	320	36	12, #30	-	-									
D	PN 40															
REF. TYPE OF FLANGE		O.D.	P.C.D.	THK MIN OF HOLE	NO. SIZE OF HOLE	RF	THK OF FLANGE	RF	THK OF FLANGE	O.D.	P.C.D.	THK MIN OF HOLE	NO. SIZE OF HOLE	RF	THK OF FLANGE	RF
SUCTION - 200										DELIVERY - 150						
REV																
DESCRIPTION																
DREN																
CHKD																
DATE																
14/8/21																

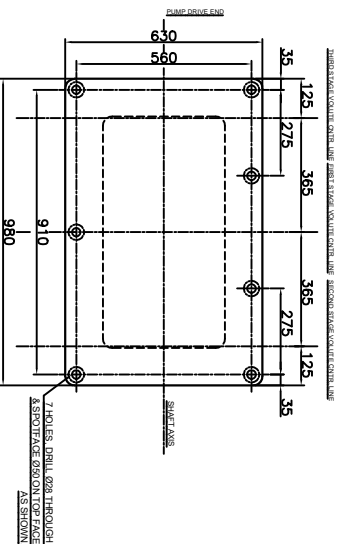
VIEW WITH MOTOR PAD.

PROJECT NAME-		JOB NO.-
TITLE-		
GA DRAWING FOR 6HSHT23 WITH 375KW ABB MOTOR FRAME SIZE 355ML		
SCALE		1:1
DRN	20.07.21	DRG. NO.
CHKD	20.07.21	APPD
360SEI17Z		REV
		1

GENERAL ARRANGEMENT DRAWING FOR TWO STAGE AXIALLY SPLIT-CASE PUMP MODEL - 6HSTT23




SCALE - 5:1
SHAFT DETAIL AT
COUPLING END



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	3/4"
CDS	CASING DRAIN(SUCTION SIDE)	1/2"
CDD	CASING DRAIN(DELIVERY SIDE)	1/2"

JOB NO.—

PROJECT NAME--		JOB NO.--
		
TITLE		
GA DRG. FOR 6HSTT23		
DRN	AD	DRG. NO.
CHKD	ST	PSF/6HSTT23/GA-02
APPD	HS	23.06.21
SCALE		REV
1:1		2

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	3/4"
CDS	CASING DRAIN(SUCTION SIDE)	1/2"
CDD	CASING DRAIN(DELIVERY SIDE)	1/2"