

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

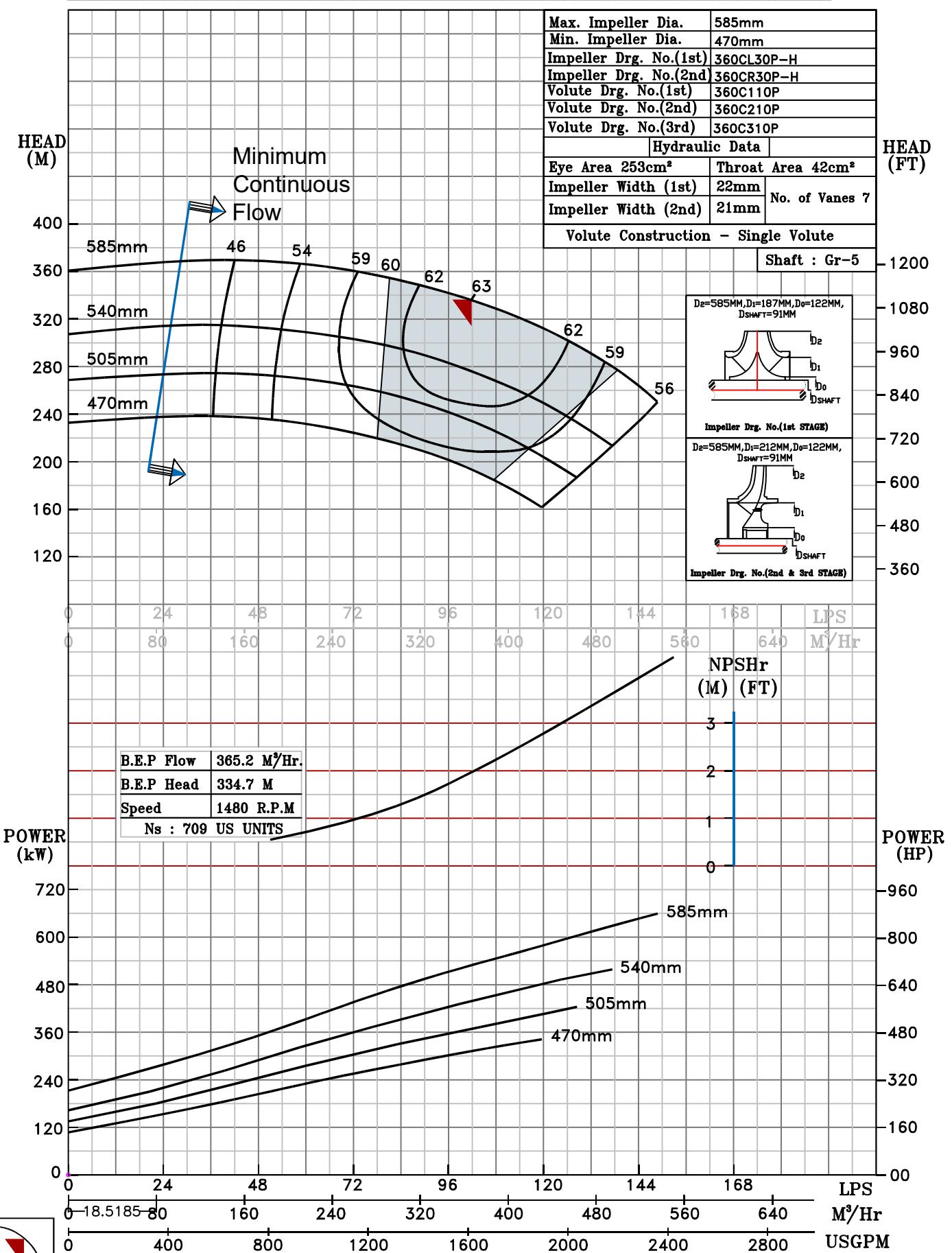
SIZE 200x150-585 TEST PRESS. 60 bar

TYPE-AXIALLY SPLIT CASE THREE STAGE

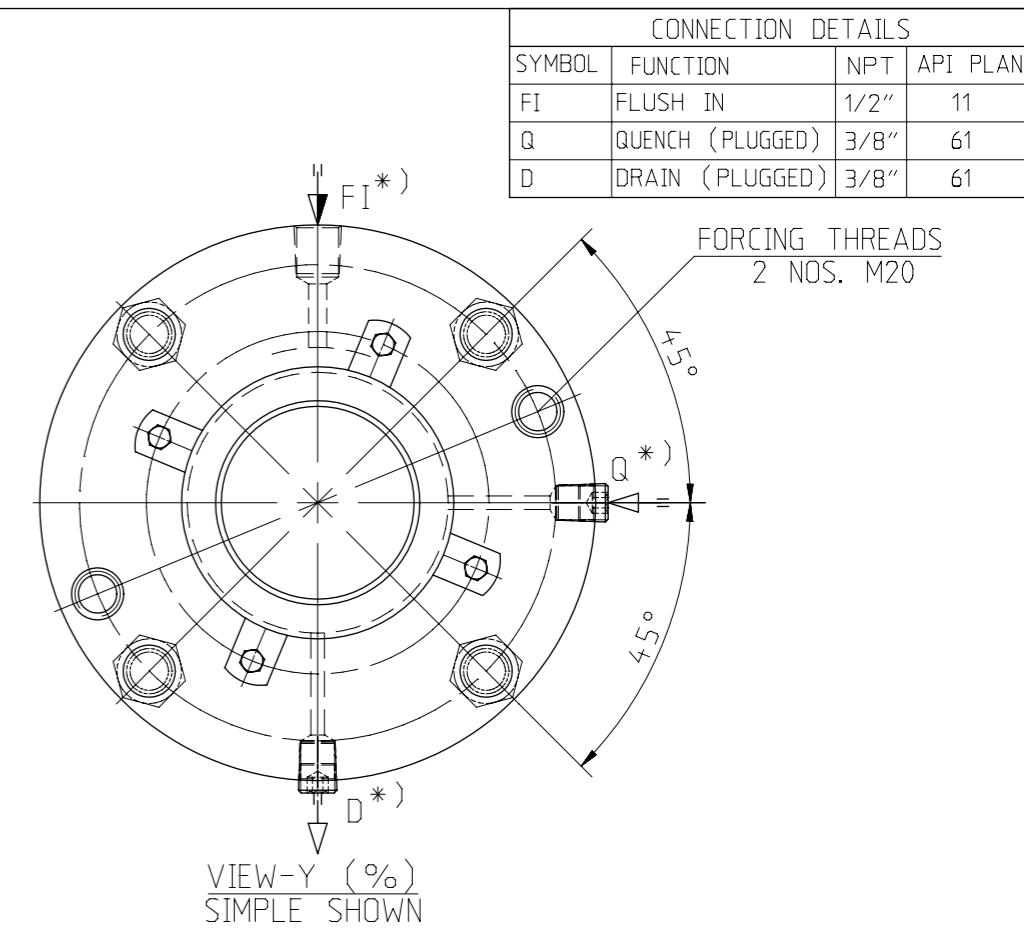
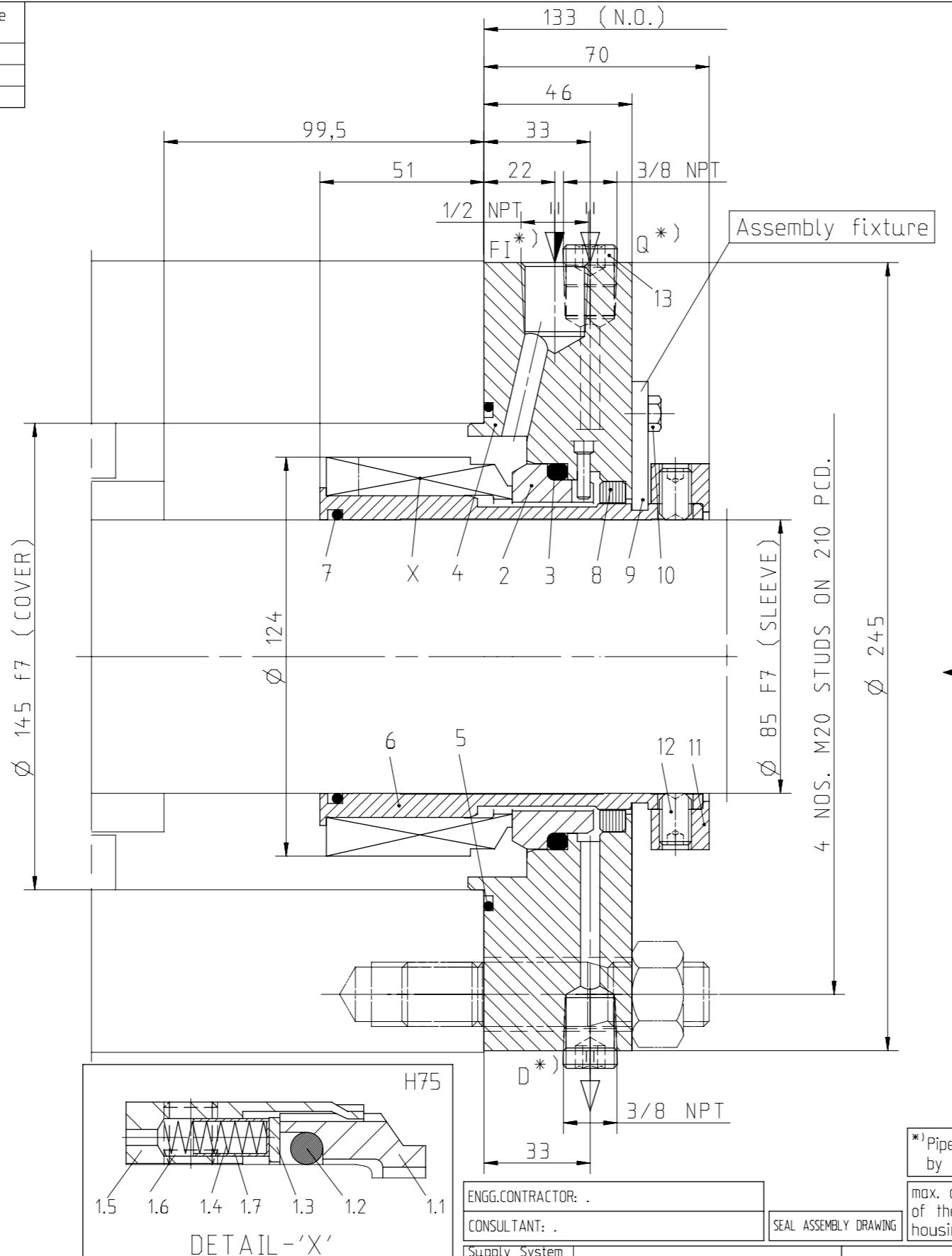
SPEED 1480 rpm

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

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



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



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

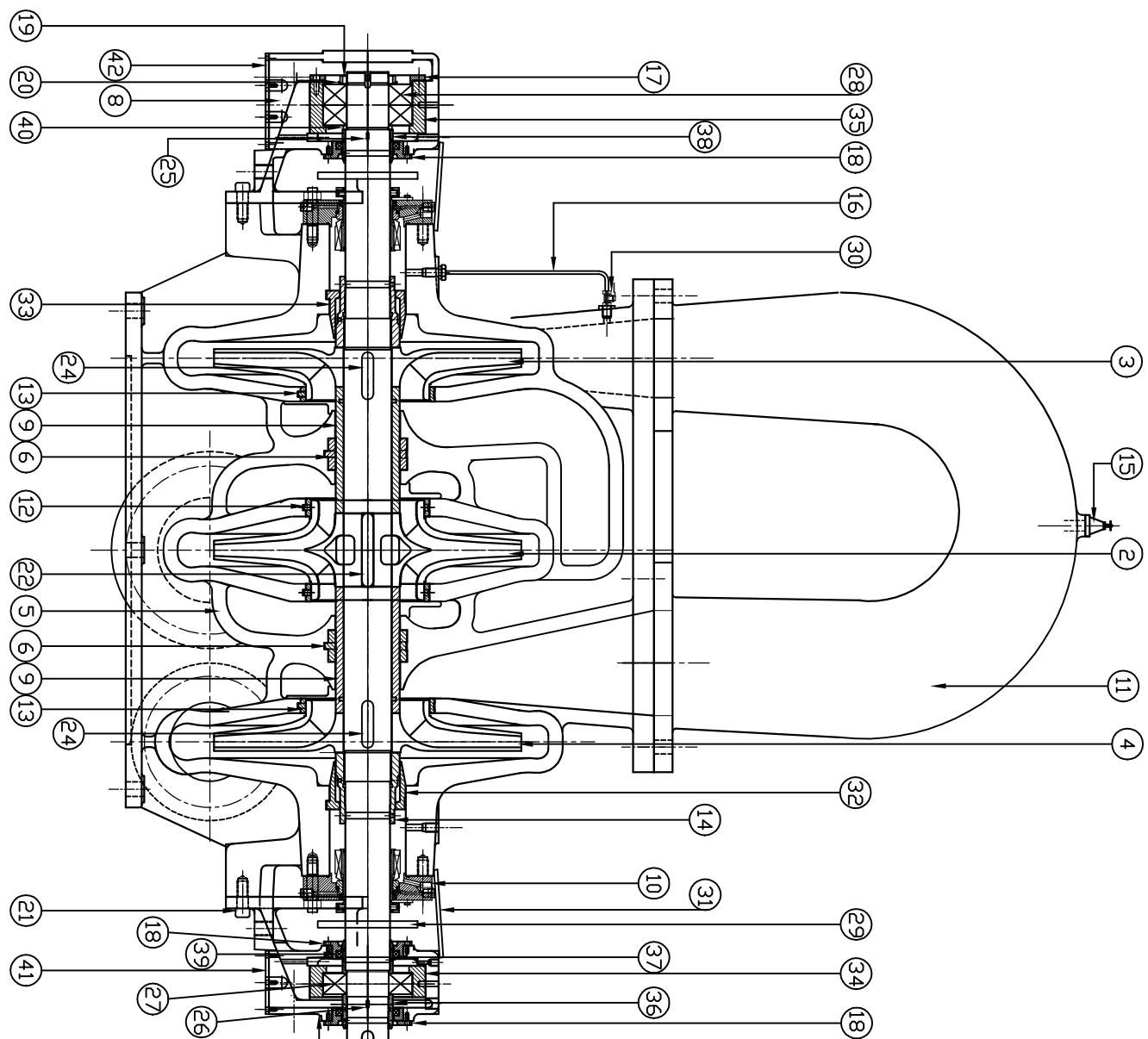
*	13	PLUG	SS316	2
*	12	SET SCREW	A4-70 (SS316)	8
11	SET RING	SS316		1
*	10	HEX. SCREW	A4-70 (SS316)	4
9	ASSEMBLY FIXTURE	SS316		4
*	8	THROTTLE BUSH	T3	1
*	7	'O' RING	P (NITRILE)	1
6	SLEEVE	SS316		1
*	5	'O' RING	P (NITRILE)	1
4	GLAND	SS316		1
*	3	'O' RING	P (NITRILE)	1
*	2	SEAT	BUKA 22 (SiC)	1
*	1.7	SPRING 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

POS. DESCRIPTION MATERIAL QTY

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

EagleBurgmann India Pvt. Ltd.

CAD



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

PUMPSENSE FLUID ENGINEERING PVT LTD

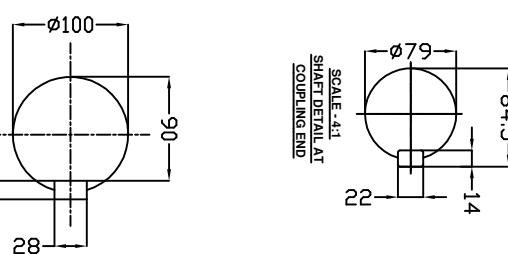
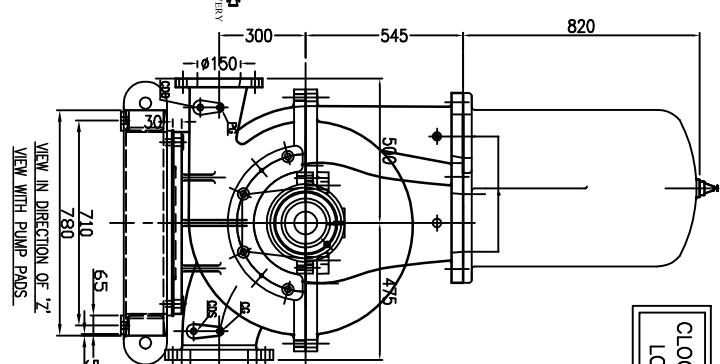
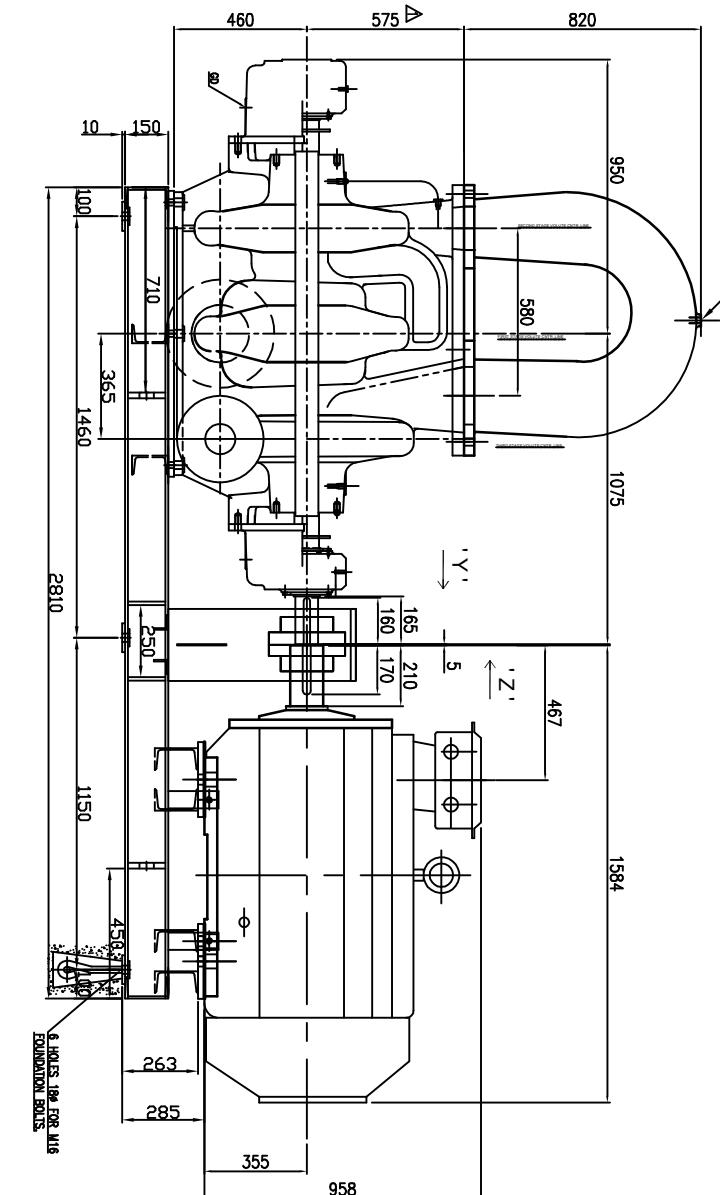
Datasheet For : 6HSTT23

	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
	NPSH _r	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

GENERAL ARRANGEMENT DRAWING FOR TWO STAGE SPLIT CASE PUMP 6HSTT23 WITH 375kW - FRAME SIZE 355MIL

PM
AC

CLOCK-WISE ROTATION
LOOKING FROM DRIVE END



PLAN VIEW OF BASE PLATE

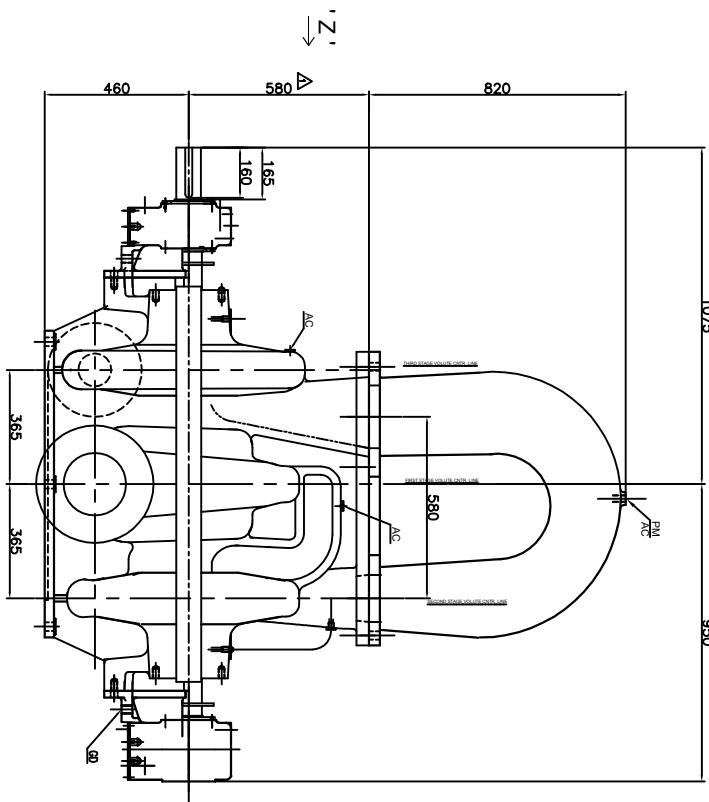
PLAN VIEW OF BASE PLATE						
ITEM	DESCRIPTION	CONNECTIONS				
		SIZE(NPT)				
GD	GLAND DRAIN	1"				
CG	COMPOUND GAUGE FOR SUCTION	3/8"				
PG	PRESSURE GAUGE FOR DELIVERY	3/8"				
AC	AIR COCK	1/2"				
PM	PRIMING	3/4"				
CDS	CASING (DRAWN/DELIVERY SIDE)	1/2"				
CDD	CASING (DRAWN/DELIVERY SIDE)	1/2"				
** GAUGE CONNECTIONS DRILLED AND TAPERED ONLY						
S	P.N. 40	375	320	36	12, 480	-
D	P.N. 40					
REF. NO.	TYPE OF FLANGE	O.D.	P.C.D.	THK	NO. OF HOLE	R.F.

VIEW IN DIRECTION OF 
VIEW WITH MOTOR PAD

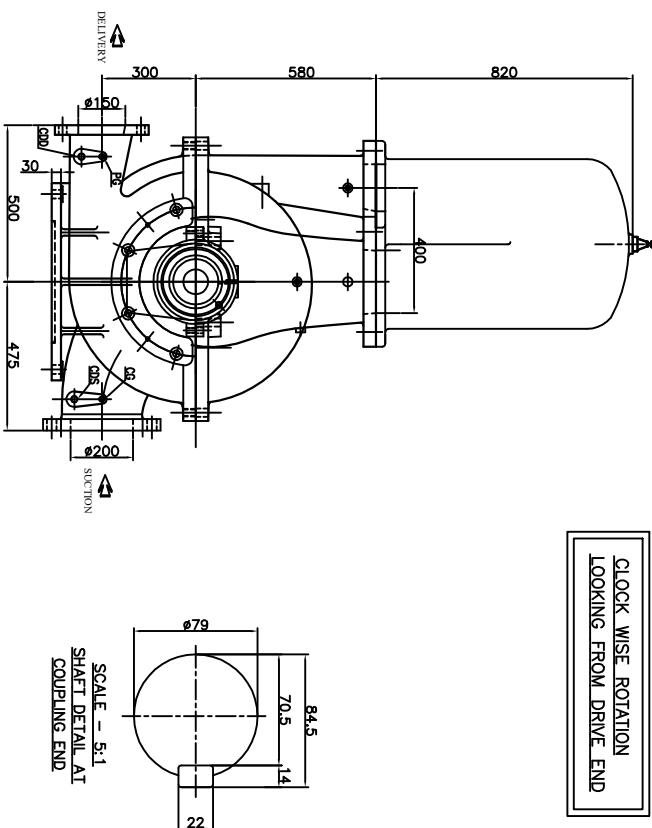
PROJECT NAME—		JOB NO.—												
PUMPSENSE														
TITLE— GA DRAWING FOR 6HST23 WITH 375KW ABB MOTOR FRAME SIZE 355ML														
DRN	AD 20.07.21	SCALE 1:1												
CHKD	ST 20.07.21	REV 1												
APPD	HS 20.07.21													
<table border="1"> <thead> <tr> <th colspan="2">MOTOR DETAILS</th> </tr> <tr> <th>MAKE</th> <td>ABB</td> </tr> <tr> <th>TYPE</th> <td>IEFC.</td> </tr> <tr> <th>KW</th> <td>375</td> </tr> <tr> <th>FR. SIZE</th> <td>355ML</td> </tr> <tr> <th>SPEED</th> <td>1480 RPM.</td> </tr> </thead> </table>			MOTOR DETAILS		MAKE	ABB	TYPE	IEFC.	KW	375	FR. SIZE	355ML	SPEED	1480 RPM.
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PUMP MODEL – 6HSTT23

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



CLOCK WISE ROTATION
LOOKING FROM DRIVE END



VIEW IN DIRECTION OF 'Z'

**APPROX. NETT WEIGHT - 2976kg
ALL DIMENSIONS ARE IN MM.**

ALL DIMENSIONS ARE IN MM.

CONNECTIONS		
ITEM	DESCRIPTION	SIZE IN"
GD	GLAND DRAIN	1"
CG	COMPOUND GAUGE FOR SUCTION	3/8"
PG	PRESSURE GAUGE FOR DELIVERY	3/8"
AC	AIR COOK	3/4"
PM	PRIMING	3/4"
CDS	CASING DRAINS(SUCTION SIDE)	1/2"
ODD	CASING DRAIN(DELIVERY SIDE)	1/2"

S	PN 40	375	320	36	12, #30	-	-						
D	PN 40							300	250	30	8, #28	-	-
REF.	TYPE OF FLANGE	O.D.	P.C.D.	THK MIN OF HOLE	NO. OF HOLE	SIZE RF#	RF. FLANGE	O.D.	P.C.D.	THK MIN OF HOLE	NO. OF HOLE	SIZE RF#	RF. FLANGE
SUCTION - 200												DELIVERY - 150	

PUMP FOOT DETAILS

PUMPSENSE						SCALE
GA DRG. FOR 6HSTT23						1:1
REV	DESCRIPTION	DRN	CHKD	DATE	APPD	REV
2	Height changed to 580mm	AD	ST	21/8/21 14/8/21	DRN	DRG. NO.
1	Casing height changed	AD	ST	23.06.21	CHKD	PSF/6HSTT23/GA-02