

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

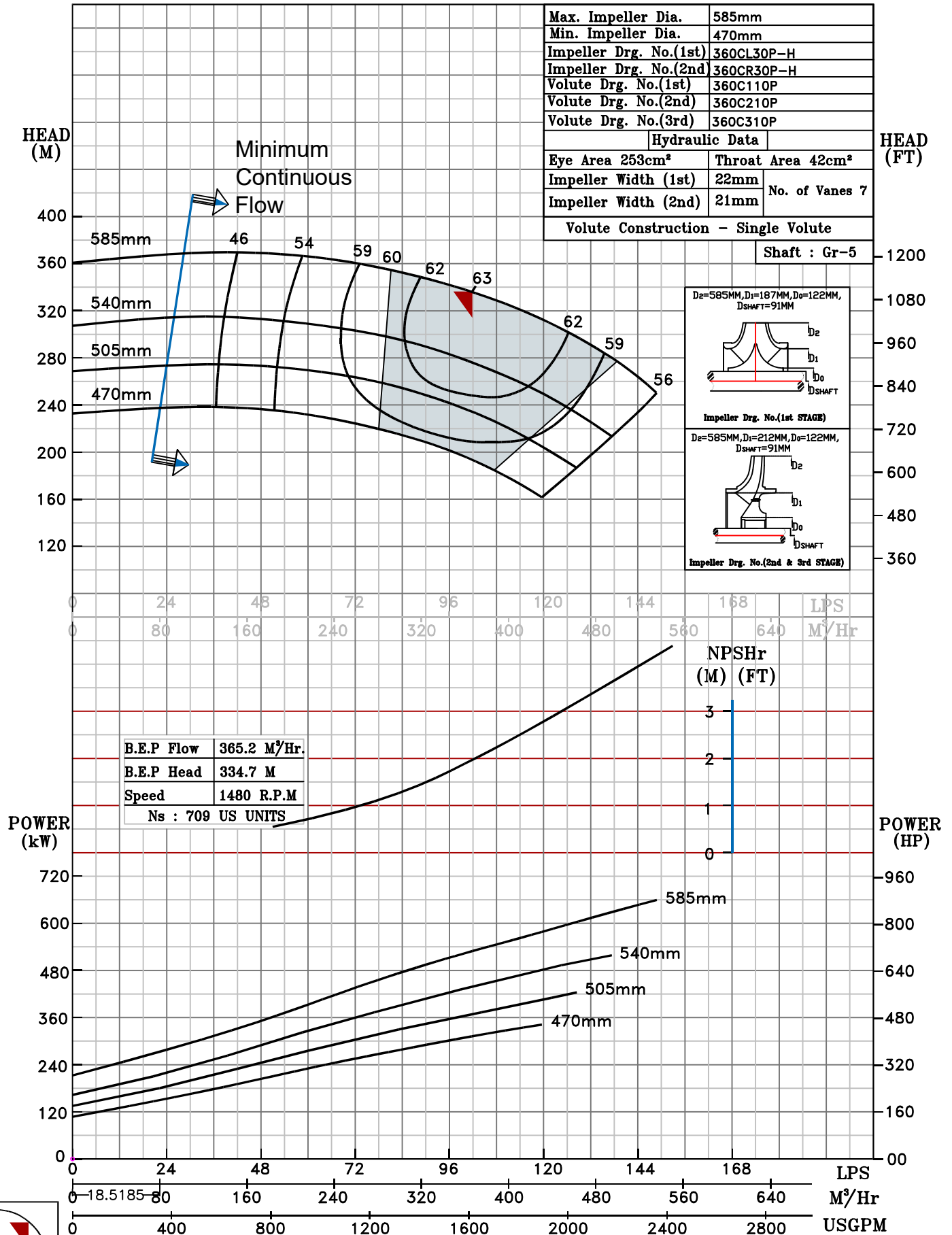
TEST PRESS. 60 bar

TYPE-AXIALLY SPLIT CASE THREE STAGE

SPEED 1480 rpm

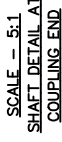
SHADED REGION ON THE H-Q CURVE REPRESENTS OPTIMUM SELECTION ZONE

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



1480 RPM

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




THIRD STAGE VOLUTE CNTR LINE FIRST STAGE VOLUTE CNTR LINE SECOND STAGE VOLUTE CNTR LINE



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

PROJECT NAME -	JOB NO. -
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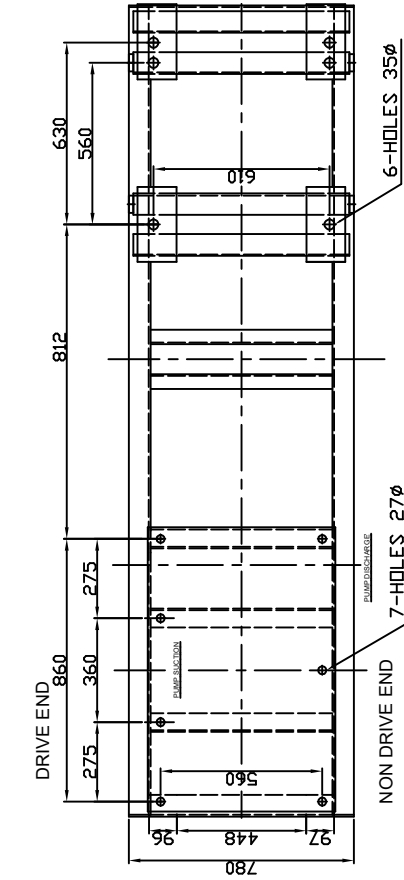
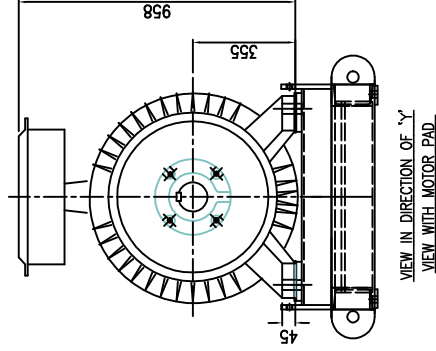
<div></div> <div>SCALE1:1</div> <div>REV2</div>														PUMPSENSE									
TITLEGA DRG. FOR 6HSTT23														DRG. NO. PSF/6HST23/GA-02									
DRN		AD		23.06.21		ADST						14/8/21		21/8/21									
CHKD		ST		23.06.21																			
APPD		HS		23.06.21		ADST						14/8/21		21/8/21									
REV		DESCRIPTION		DRN								CHKD		DATE									

2		Height chnged to 580mm										AD		ST			
1		Casing height changed										AD		ST			
REV		DESCRIPTION										DRN		CHKD		DATE	

S		PN 40		375		320		36		12, ø30		-		-					
D		PN 40								300		250		30		ø26		-	
REF. NO.		TYPE OF FLANGE		O.D.		P.C.D.		THK		NO. OF HOLE		SIZE OF HOLE		RF THK		RF FL		RF THK	

[illegible]

CLOCK-WISE ROTATION
LOOKING FROM DRIVE END



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

APPROXIMATE WEIGHTS IN KGS.		
PUMP	3000	
MOTOR	2140	
BED PLATE	-	
COUPLING	20	
TOTAL WEIGHT	-	
MOTOR DETAILS		
MAKE	ABB	
TYPE	TEFC.	
KW	375	
FR.SIZE	355M	
SPEED	1480 RPM	

SCALE - 4:1
AT COUPLING END
MOTOR SHAFT

PROJECT NAME -										JOB NO. -	
PUMPSENSE											
TITLE -											
GA DRAWING FOR 6HST723 WITH 375KW ABB MOTOR FRAME SIZE 355ML											
SCALE 1:1											
REV 1											
DRG. NO. 360SE11Z											
DRN AD 20.07.21 CHKD ST 20.07.21 APPD HS 20.07.21											
1 Casing height changed AD ST 14/8/21											
REV DESCRIPTION DRN CHKD DATE											
DELIVERY - 150											
SUCTION - 200											
S	PN 40	375	320	36	12, ø30	-	-				
D	PN 40							300	250	30	B, ø26
REF.	TYPE OF FLANGE	O.D.	P.C.D.	THK	NO. SIZE	RF THK	RF FLANGE	THK	NO. SIZE	RF THK	RF FLANGE

**** GAUGE CONNECTIONS DRILLED AND TAPPED ONLY WHEN SPECIFICALLY REQUESTED BY THE CUSTOMER.**

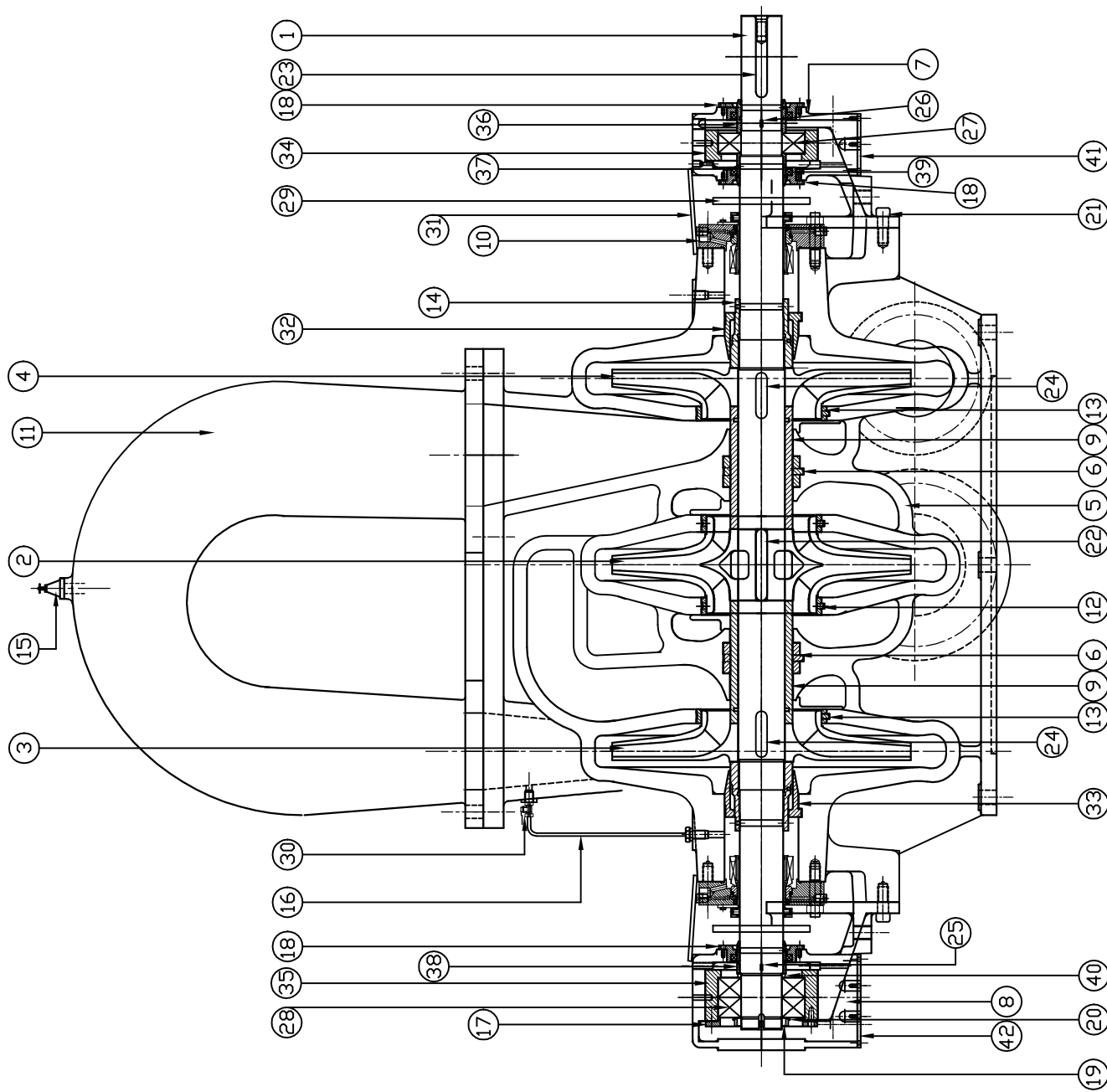
PUMPSENSE FLUID ENGINEERING PVT LTD

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

SL.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 CATRIDGE 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 (DE) OUTER	1	439
37	OIL SEAL SLEEVE AT COUPLING END (DE) 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 COPIED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION AND ANY SUCH VIOLATION WILL BE PROSECUTED.

UNFINISHED MACHINING TOLERANCES	SURFACE FINISH
1.000	12.5
0.500	6.3
0.250	3.2
0.125	1.6
0.063	0.8
0.032	0.4
0.016	0.2
0.008	0.1
0.004	0.05
0.002	0.025
0.001	0.0125

DO NOT SCALE WORK TO DIMENSIONS	FORMING TOLERANCE
1.000	0.125
0.500	0.063
0.250	0.032
0.125	0.016
0.063	0.008
0.032	0.004
0.016	0.002
0.008	0.001
0.004	0.0005
0.002	0.00025
0.001	0.000125

DO NOT SCALE WORK TO DIMENSIONS	FORMING TOLERANCE
1.000	0.125
0.500	0.063
0.250	0.032
0.125	0.016
0.063	0.008
0.032	0.004
0.016	0.002
0.008	0.001
0.004	0.0005
0.002	0.00025
0.001	0.000125

DATE	BY	CHKD	DATE	BY	CHKD
15/03/2011	15/03/2011	15/03/2011	15/03/2011	15/03/2011	15/03/2011

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