

Vendor's name : KSB AKTIENGESELLSCHAFT

Company's name : Nghi Son Refinery and Petrochemical LLC.

: JGCS Consortium

: SK Engineering & Construction Co., Ltd.

Plant Location : Nghi Son, Vietnam

Project name : NSRP Complex Project

P / Order No. : 0-6495-PS2158-102-A-100

Equipment /Material
name : STG Condensate Pump

BY:

J.G.KIM

DATE:

2015.03.02

Item number : 113-ST-301-P01 A/B

Document title : Mechanical Seal Drawing

PROJECT (JOB No.: 0-6495-20)

DOCUMENT CLASS: X

ISSUE PURPOSE: AB

RESULT CODE: A, B, R, F (A)

NEXT STATUS: FA, FR, FI, FC, AB (-)


RESUBMISSION DATE: (-)

RESPONSIBLE DEPT./PERSON.: (-)

Review Date: (-)

A: Approved without Comment; B: Approved with Minor Comment
R: Not Approved; F: Not Subject to ReviewApproval or review hereunder shall not be construed to relieve Vendor/
Subcontractor of his responsibilities and liability under the Contract

Purchaser DOC. No.	ORIG.	PURCHASE ORDER NO.	SERIAL	REV.
	V	S2158-102-A-	175	2

2	09 Feb 2015	As Built	fichmar	langmar	wiltrei
1	31 Jan 2015	For Construction	fichmar	langmar	wiltrei
0	27 Jan 2015	For Review	fichmar	langmar	wiltrei
Rev.	Date:	Description	Prep'd	Chk'd	App'd
Vendor's Name:					
					

CAD-DRAWING - no modification by hand!
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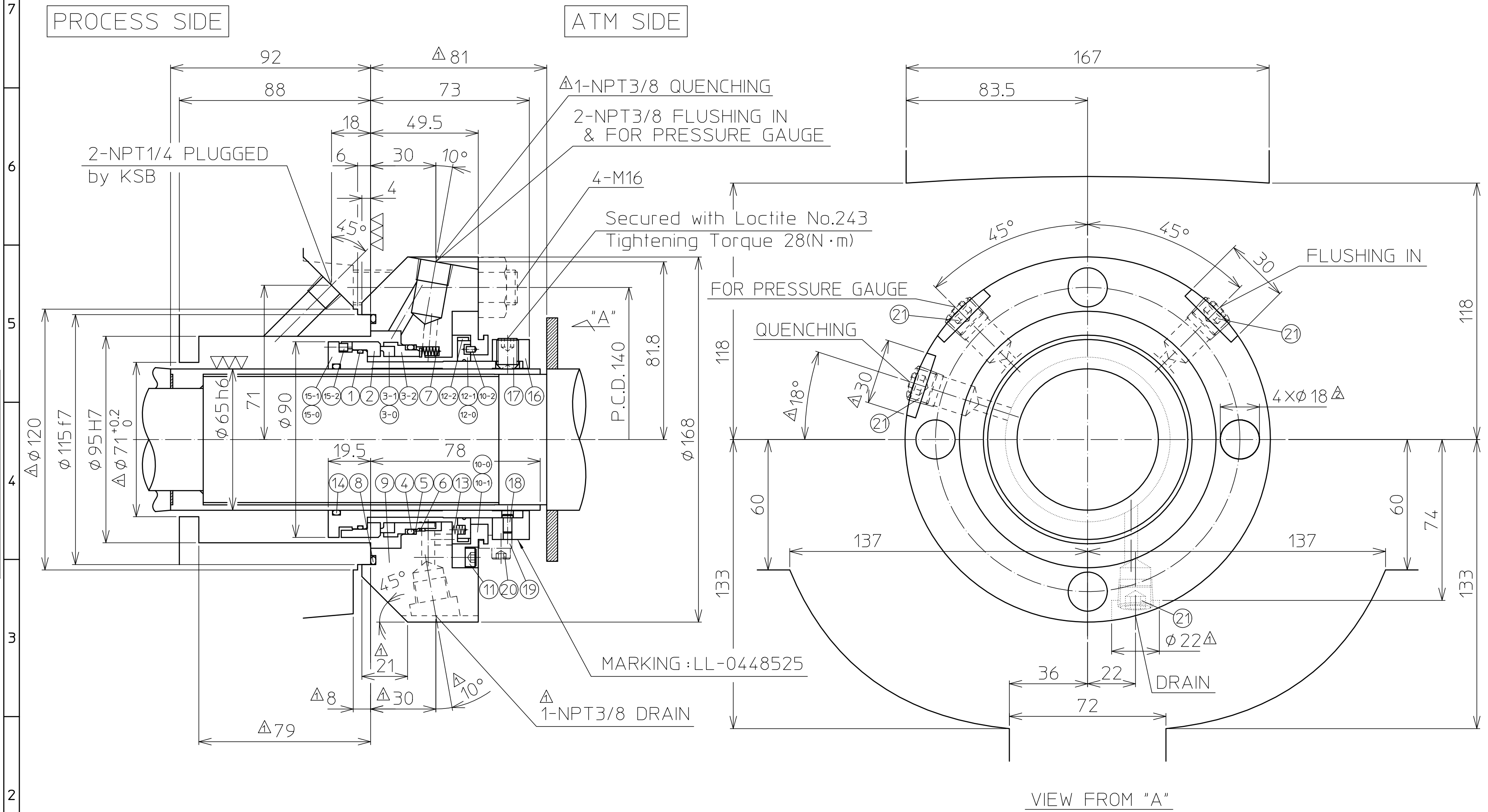
CONFIDENTIAL

AUTO ENTRY

EDMS
19-Jul-2018
AS-BUILT

A		B		C		D		F		G		H		I		J		K	
No.	PART NAME	MATERIAL	QTY	CODE	No.	PART NAME	MATERIAL	QTY	CODE	No.	PART NAME	MATERIAL	QTY	CODE					
1	O RING	FKM	1		10-0	FLANGE COVER A		1		15-2	KNOCK PIN	SUS316	2						
2	MATING RING	S.CARBIDE	1		10-1	FLANGE COVER	SUS316	1		16	SLEEVE COLLAR	SUS316	1						
3-0	SEAL RING ASY		1		10-2	KNOCK PIN	SUS316	1		17	SET SCREW	SCM435-NIP	6						
3-1	SEAL RING	CARBON	1		11	HEX.SOCKET BOLT	SUS304	6		18	KNOCK PIN	SUS316	3						
4	RETAINER	DSS	1		12-0	FLOATING BUSH A		1		19	SET PLATE	SCS13	3						
5	O RING	FKM	1		12-1	FLOATING BUSH	CARBON	1		20	HEX.SOCKET BOLT	SUS304	3						
6	SPACER	SUS316	1		12-2	RETAINER	SUS316	1		21	HEX.SOCKET PLUG	SUS316	4						
7	SPACER	SUS316	1		13	COIL SPRING	SUS316	4											
8	COIL SPRING	HAS-C	12		14	O RING	FKM	1											
9	O RING	FKM	1		15-0	SLEEVE ASY		1											
	SEAL COVER	SUS316	1		15-1	SLEEVE	SUS316	1											

JIS CODE	ASTM CODE
SUS316	ASTM A276-316
SUS316L	ASTM A276-316L
SUS304	ASTM A276-304
HAS-C	ASTM B574-85
SCM435	AISI 4137
DSS	ASTM A276 S31803
SCS13	ASTM A743-CF8
SCS14	ASTM A743-CF8M
S20C	ASTM H1029
CAP-42	ASTM F30
SUS630	ASTM A461-630
TITANIUM	ASTM B348 Gr.2



COLUMN FOR PURCHASER OF PUMPS

COLUMN FOR PUMP MANUFACTURER

PUMP MANUFACTURER
KSB

APPROVED BY
CHECKED BY

DOCUMENT NO.
REV.

JOB NO.
MFG NO.

PUMP TYPE MCPK 200-150-500

KSB ORDER No. Δ
9972 669 142 / 1600

INSTALLATION SPACE : Δ
2029 SH. 9 / CS80

FOR MESSRS.

Nghi Son Refinery and Petrochemical Limited Liability Company

PROJECT NAME
NSRP COMPLEX PROJECT

EQUIPMENT NAME
STG CONDENSATE PUMPS

ITEM No.
113-ST-301-P01A/B

MECHANICAL SEAL

OPERATING CONDITIONS				SPECIAL REQUIREMENT				ORIGINAL PRODUCT CODE				DATE	DRAWN	CHECKED	APPROVED	PROJECT NAME					
SEALING FLUID	Turbine Suspect Condensate Water	000197		ITEM	FLOW l/min	PRESS. kPaG	TEMP. °C	LL-0448525				Dec.23.2014	M.Kohiyama	T.A	T.Anazawa	NSRP COMPLEX PROJECT					
SP.GR.	0.988	SUCT. PRESS.	RATED -67.1 PRESS. MAX. 137.2 kPaG	SELF FLUSHING	3		50	CUSTOMER CODE				OPTIONAL CODE				SCALE	EQUIPMENT NAME				
VIS.	0.547 cP	DISCH. PRESS.	620.8 kPaG	COOLING				105970								NONE	STG CONDENSATE PUMPS				
ABRASIVE		VAP. PRESS.	12.3 kPaA	QUENCHING				USER CODE				ITEM TYPE				SIZE	MATERIAL CODE	ITEM No.			
TEMP.	50 °C	BOX PRESS.	239 kPaG	JACKET				107567				LMA256				1065	VXVVC				
SHAFT SPEED	1483 rpm	DIFF. HEAD	71 m	ACCESSORIES								CODE(DRAWING No.)				REV.	NAME				
ROTATION FROM DRIVE END		THROTTLE BUSHING CLEARANCES				QUANTITY				LL-0448525				0000302				MECHANICAL SEAL			
API PLAN	11+61	0.14mm on DIA.				ASSY 2 sets				EagleBurgmann				EagleBurgmann Japan Co.,Ltd. 1-12-15, Shiba-Damian, Tokyo 105-0002, JAPAN							
API CODE	BSTFN/C1A1161					PARTS				REV. NOTICE NO				DATE				BY			
												REVISIONS									

NOTE :
Remove the SET PLATE(P/N19) and
HEX.SOCKET BOLT(P/N20) before running the pump.
And keep them for next service.