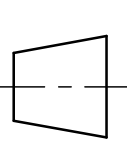
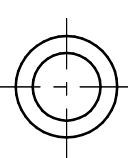
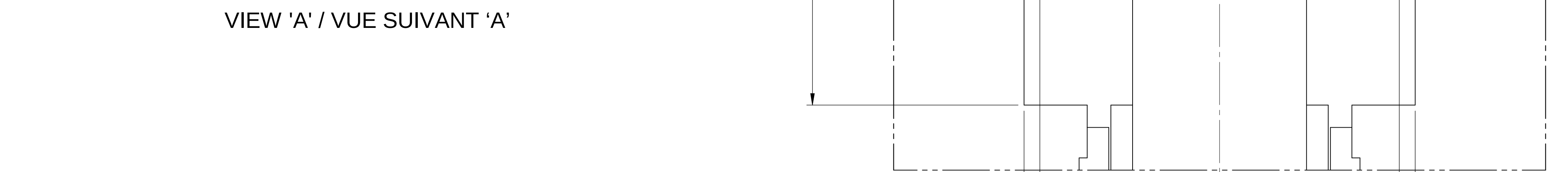
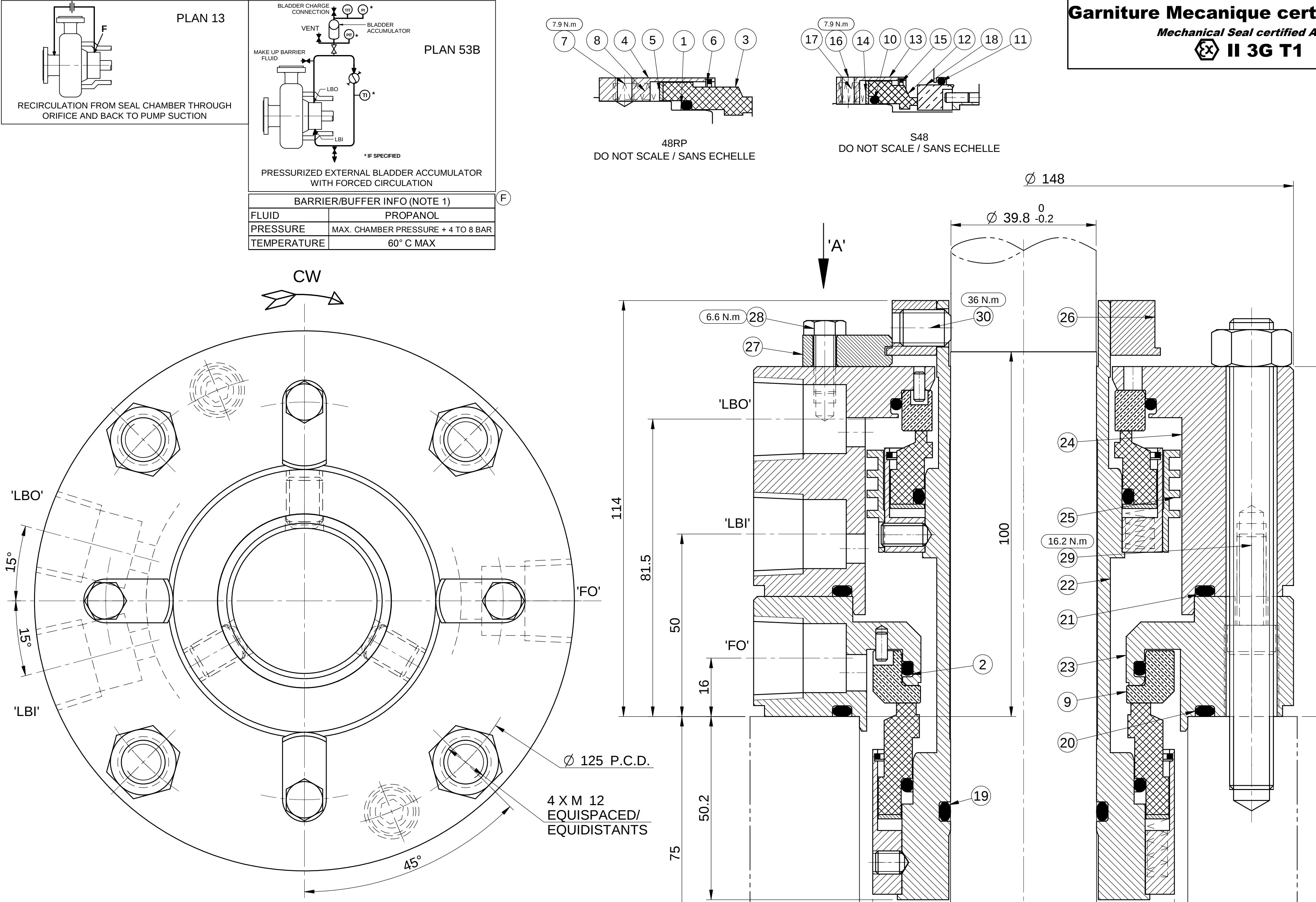


DRAWING No.	ISSUE	MODIFICATIONS: A ORIGINAL ISSUE B MODIFIED ACCORDING CUSTOMER COMMENTS -AA- 30/11/16 C APPROVED BY CUSTOMER - KPN - 21/12/2016. D GCN#118082 DRB le 15.02.2017 MISE A JOUR CONDITIONS DE SERVICE SUITE COMMENTAIRES CLIENT	E GCN#121132 DRB le 15/03/2017 ADD COMMENT MAWP F GCN#122514 DRB le 10/05/2017 ADD COMMENT CUSTOMER	 
GA-196736	F			



"MAWP applies to the chamber pressure side of mechanical seal (i.e. the external input of the system). Inner chamber of MS is obviously designed for max barrier liquid pressure."

NOTICE DE MONTAGE ET D'ENTRETIEN FITTING AND MAINTENANCE INSTRUCTIONS IM-01		TEST A L'AIR SUIVANT API682 AIR TEST TOOL FOLLOWING API682		MAWP = 25 BARG DESIGN TEMPERATURE = -33°C TO 85°C	
ATTENTION: La garniture a été conçue pour fonctionner dans les conditions indiquées ci-dessus. Pour tout autre type d'utilisation (essais à l'eau, épreuves, démarrages particuliers, rinçage de lignes, changements de processus ou de service) consulter JOHN CRANE. La garantie JOHN CRANE s'applique aux équipements dont les conditions d'utilisation sont conformes aux conditions de service indiquées ci-dessus.		DEROGATION AVEC LE PARAGRAPHE N° 4.3 DE L'API 682 ET DE L'ISO 21049, CONCERNANT L'ORIENTATION DES CONNECTIONS. DEROGATION WITH PARAGRAPH 4.3 FROM API 682 AND FROM ISO21049 CONCERNING THE CONNECTION ORIENTATION.		DEROGATION AVEC LE §6.1.2.17 DE L'API 682 4EME EDITION CONCERNANT LA TAILLE DES CONNECTIONS DEROGATION WITH §6.1.2.17 FROM API 682 4TH EDITION CONCERNING CONNECTIONS SIZE	
LES RONDELLES EXCENTRIQUES REP 27 DOIVENT ETRE TOURNEES DE 90° AVANT DEMARRAGE ECCENTRIC SPACERS (ITEM 27) ARE FOR CORRECT POSITIONING OF SEAL ONLY AND MUST BE RELOCATED BEFORE STARTING.		RACCORDEMENTS / CONNECTIONS			
FO		FLUSH OUT INJECTION SORTIE	NPT 1/2" NFE03-601		
LBI		LIQUID BARRIER IN LIQUIDE DE BARRAGE ENTRÉE	NPT 1/2" NFE03-601		
LBO		LIQUID BARRIER OUT LIQUIDE DE BARRAGE SORTIE	NPT 1/2" NFE03-601		

Garniture Mecanique certifiée ATEX :
Mechanical Seal certified ATEX :
II 3G T1

Item	Drawing Number	Mat'l Code	Description	Material	Qty	Spare
1	0000229	9561	O' RING JOINT TORIQUE	EPDM	1	X
2	0000229	9561	O' RING JOINT TORIQUE	EPDM	1	X
3	C48-2625-007	8270	PRIMARY RING FACE	CARBON CARBONE	1	X
4	0666/G10/001		RETAINER DOUILLE	316 SS 316 INOX	1	
5	0666/G11/001		THRUST RING ANNEAU DE BUTEE	316 SS 316 INOX	1	
6	0603/096/001		SNAP RING CIRCLIPS	316 SS 316 INOX	1	X
7	11252005000	0550	CUP POINT SET SCREW VIS (1/4"-20 X 5/16" LG)	316 SS 316 INOX	4	X
8	4957/092/033		SPRING RESSORT	HASTELLOY 'C' HASTELLOY 'C'	8	X
9	H-2375-807	1903	MATING RING 'RB' SIEGE 'RB'	SILICONE CARBIDE CARBURE DE SILICIUM	1	X
10	0000227	9561	O' RING JOINT TORIQUE	EPDM	1	X
11	0000231	9561	O' RING JOINT TORIQUE	EPDM	1	X
12	0539/G06/530		PRIMARY RING FACE	CARBON CARBONE	1	X
13	0539/H60/001		RETAINER DOUILLE	316 SS 316 INOX	1	
14	0539/G08/001		THRUST RING ANNEAU DE BUTEE	316 SS 316 INOX	1	
15	0550/096/001		SNAP RING CIRCLIPS	316 SS 316 INOX	1	X
16	11252008000	0550	CUP POINT SET SCREW VIS (1/4"-20 X 1/2" LG)	316 SS 316 INOX	4	X
17	7446/092/033		SPRING RESSORT	HASTELLOY 'C' HASTELLOY 'C'	8	X
18	TAB-2034-0476	1903	MATING RING 'PUC' SIEGE 'PUC'	SILICONE CARBIDE CARBURE DE SILICIUM	1	X
19	0000223	9561	O' RING JOINT TORIQUE	EPDM	1	X
20	0000241	9561	O' RING JOINT TORIQUE	EPDM	1	X
21	0000241	9561	O' RING JOINT TORIQUE	EPDM	1	X
22	H-0400M-4629	0550	SLEEVE CHEMISE	316 SS 316 INOX	1	
23	H-0400M-4630	0550	INTERNAL GLAND PLATE ASSEMBLY ENSEMBLE DE CHAPEAU INTERIEUR	316 SS 316 INOX	1	
24	H-0400M-4631	0550	EXTERNAL GLAND PLATE ASSEMBLY ENSEMBLE DE CHAPEAU EXTERIEUR	316 SS 316 INOX	1	
25	H-0440M-1099	0550	RIGHT HAND PUMPING SCROLL ROUET A VIS PAS A DROITE	316 SS 316 INOX	1	
26	TAB-3370-0539	0550	DRIVE COLLAR COLLIER D'ENTRAINMENT	316 SS 316 INOX	1	
27	H-0000-5249	0570	ECCENTRIC SPACER RONDELLE EXCENTRIQUE	316 SS SINTERED 316 INOX SINTERED	4	
28	72061000016	0550	HEX. HEAD SCREW VIS (M6 X 16 LG)	316 SS 316 INOX	4	
29	71081250025	0550	SOCKET CAP HEAD SCREW VIS (M8 X 25 LG)	316 SS 316 INOX	2	
30	61101500014	0236	CUP POINT SET SCREW VIS (M10 X 14 LG)	ALLOY STEEL ALLOY STEEL	3	X

SEAL ASSEMBLY CODE: 0400/3648//GA196736 SPARES KIT CODE: 0400/3648/SK/GA196736			
SEAL ASS'Y NO.		BILL OF MATERIALS NUMBER	
IN :	ASSEMBLY	1 TO 30	GPN: 89823433
	SEAL HEAD		
OUT:	SPARES KIT	X	GPN: 89848164
	DESCRIPTION	ITEMS	NUMBER
EQUIPMENT REFERENCE		SEAL DATA	
OEM: ENSIVAL MORET		API PLAN: 13/53B	API CODE: BDPXN/XN 3CW-FB
EQUIPMENT TYPE: VERTICAL PUMP		INSTRUCTION MANUAL REF. IM-01	
MODEL, FRAME / SIZE 80VNC65-20-1R		MATERIAL CODE: CARB/SIC/EPDM/316 SS - INB	
SERIAL / DRAWING No. 1201522		CARB/SIC/EPDM/316 SS - OUT	
CUSTOMER INFORMATION		SERVICE DATA	
CUSTOMER: ENSIVAL MORET		FLUID: AMMONIA (NH3 99.6% & H2O 0.4%)	
P.O. NUMBER: F221604753	PLANT ITEM NO: 40700-P02 A/B/C/D	BARRIER FLUID: SEE NOTE 1	
END USER:		CHAMBER PRESSURE: 6.74 MIN / 21.2 MAX BARG (@10°C / 45°C)	
LOCATION: EGYPT		SUCTION PRESSURE: 5.08 MIN / 19.5 MAX BARG (@10°C / 45°C)	
PLANT:		DISCHARGE PRESSURE: 6.74 MIN / 21.2 MAX BARG (@10°C / 45°C)	
REFERENCE DATA: E221601757-10 4/864498 - F221604753 - INTECSA		PROCESS TEMPERATURE: 10°C MIN / 45°C MAX	
SEAL FLUSH RATE: FLUID SYSTEM DRG: GA-196546		SHAFT SPEED: 2920 RPM	VAPOUR PRESSURE: 6.09 / 17.86 BARA (@10°C/45°C MAX)
IPROJECTS NO: 240165-FR		SPECIFIC GRAVITY: 0.62 / 0.57 (@10°C / 45°C)	VISCOSITY: 0.149 / 0.101 cP (@10°C / 45°C)
SEAL SIZE: Ø66.60 mm / Ø53.90 mm		DE / NDE DRG NO:	
SEAL TYPE: 48RP / S48 DOUBLE CARTRIDGE			
SCALE 1.5:1	DATE 18/11/2016	DRAWN KPN	CHECKED BJ
APPROVED AA		DESIGN AUTH. FR03EN	
DRAWING No. GA-196736		ISSUE F	