



ITEM NUMBER	06-V-321
SERVICE	BALLON TAMPON D'HUILE CHAUDE (HOT OIL EXPANSION VESSEL)
SIZE	5350mm ID X 15800mm T-T
DESIGN P/T	6,9 barg, FV/316-C, -5-C

ITEM NUMBER	06-P-321A/B/C
SERVICE	POMPES DE CIRCULATION DE L'HUILE CHAUDE (HOT OIL CIRCULATION PUMPS)
CAPACITY	1205,8 m <sup>3</sup> /hr AT 15,5 bar
DESIGN P/T	27,0 barg/316-C, -5-C
DRIVER POWER	860 kW

ITEM NUMBER	06-V-323
SERVICE	FILTRE D'HUILE CHAUDE (HOT OIL FILTER)
CAPACITY	231,5 m <sup>3</sup> /hr
DESIGN P/T	27,0 barg, FV/316-C, -5-C

- NOTES:
- POUR LES NOTES GENERALES ET LEGENDES, VOIR PLAN DC-PS-00-00-20000-20009.  
(FOR GENERAL NOTES AND LEGENDS REFER TO DRAWINGS DC-PS-00-00-20000 TO 20009.)
- SUPPRIMER (DELETED).
  - POINT DE RACCORDEMENT POUR FUTURS SURCHAUFFEURS D'ENTREE GAZ COMBUSTIBLE DE COMPRESSION, (TIE-IN POINT FOR FUTURE INLET COMPRESSION FUEL GAS SUPERHEATERS.)
  - SURELEVER 06-V-321 POUR S'ASSURER QUE LES VANNES DE CONTROLE DU SYSTEME D'HUILE CHAUDE ET LA THYAUERIE DE RETOUR SE SITUENT BIEN AU-DESSOUS DU VASE D'EXPANSION. (ELEVATE 06-V-321 TO ENSURE HOT OIL SYSTEM CONTROL VALVES AND RETURN PIPEWORK ARE BELOW ELEVATION OF EXPANSION VESSEL.)
  - PREVOIR UN ENDUIGEMENT ENVIRONNEMENTAL PAR PARAPET 80-100mm AJOURE DE LA PLAQUE DE BASE AFIN DE RETENIR LES LIQUIDES DERIVES. LA BORDURE POUR INCLURE LA POMPE, LE FILTRE D'ADMISSION ET LE DRAIN DU CHASSIS. PREVOIR UNE CONNEXION AU SYSTEME DE DRAINAGE OUVERT. (ENVIRONMENTAL CONTAINMENT - PROVIDE CONCRETE APRON WITH 80-100mm CURBING TO RETAIN ANY LIQUID SPILLS. CURB TO INCLUDE PUMP, INLET STRAINER, AND BASEPLATE DRAIN. PROVIDE CONNECTION TO THE OPEN DRAIN SYSTEM.)
  - LE ROBINET A BOISSEAU SPHERIQUE EST AJUSTE EN POSITION ET VERROUILLEE POUR MAINTENIR LA POMPE EN STAND-BY CHAUDE. (GLOBE VALVE TO BE ADJUSTED TO POSITION AND LOCKED TO MAINTAIN STANDBY PUMP WARM.)
  - L'ISOLATION ACOUSTIQUE A EXIGER JUSQU'A 50 DIAMETRES EN AVAL DU REFROIDISSEMENT DE 06-P-321A/B/C (OU JUSQU'A 27,0 barg) (ACUSTIC INSULATION REQUIRED UP TO 50 DIAMETERS UPSTREAM OF 06-P-321A/B/C SUCTION (OR UP TO 06-V-321, WHICHEVER IS SHORTER).)
  - L'ISOLATION ACOUSTIQUE A EXIGER JUSQU'A 50 DIAMETRES EN AVAL DU REFROIDISSEMENT DE 06-P-321A/B/C (OU JUSQU'A 27,0 barg) (ACUSTIC INSULATION REQUIRED UP TO 50 DIAMETERS DOWNSTREAM OF 06-P-321A/B/C DISCHARGE (OR UP TO 06-V-323, WHICHEVER IS SHORTER).)
  - QUATRE GLACES DE MESURE POUR COUVRIR LA PLAQUE. (FOUR GAUGE GLASSES REQUIRED TO COVER RANGE.)
  - LT-3240 AND LT-3243 POUR AVOIR LES MEMES PLACES. (LT-3240 & LT-3243 TO HAVE SAME RANGES.)
  - PIECES DE TUYAUTERIE DEMONTABLE. (REMOVABLE SPOOL PIECE.)
  - BRIDE DE SORTIE DU PSV-3258 EST DE 300". (PSV-3258 OUTLET FLANGE IS 300".)
  - CHAQUE POMPE P-321A/B/C SERA EQUIPEE CHAQUE DE LA SURVEILLANCE SOUS-TENSION LIEE A L'ALARME RETARDEE PROGRAMMABLE, POUR ALERTER DEBIT MINIMUM. (PUMPS P-321A/B/C WILL EACH BE FITTED WITH UNDER-CURRENT MONITORING LINKED TO CONFIGURABLE TIME-DELAY ALARM, TO WARN OF LOW FLOW CONDITIONS.)
  - PROTECTION DE L'ENVIRONNEMENT - PREVOIR BORDURE DE 90-100mm POUR RETENIR TOUTES FUITE DE LIQUIDE. LA BORDURE COMPRENDRA LE FILTRE PREVOIR CONNEXION AU DRAIN OUVERT. (ENVIRONMENTAL CONTAINMENT - PROVIDE CONCRETE APRON WITH 90-100mm CURBING TO RETAIN ANY LIQUID SPILLS. CURB TO INCLUDE FILTER, PROVIDE CONNECTION TO THE OPEN DRAIN SYSTEM.)
  - POUR DETAIL D'ECHANTILLON, VOIR LEGENDE FOLIO 6877-DC-PS-00-00-20007. (FOR SAMPLE CONNECTION DETAILS, SEE LEGEND SHEET 6877-DC-PS-00-00-20007.)
  - POUR DETAIL D'ECHANTILLON ALIMENTATION EAU VOIR PLAN 6877-DC-PS-06-52-21468. (FOR SAMPLE CONNECTION WATER SUPPLY SEE P&ID 6877-DC-PS-06-52-21468.)
  - LOCALISER LA PI EN FACE DE L'AVALE DE LA VANNE A SOUPE. LA VANNE SERA REGLER POUR DONNER 0,5 BARG SUR PI. (LOCATE PI IN VIEW OF UPSTREAM GLOBE VALVE. VALVE TO BE ADJUSTED TO GIVE 0,5 BARG AT PI.)
  - LE TUBE DE DRAINAGE D'EAU DE REFFROIDISSEMENT, DOIT ETRE EQUIPE D'UNE PROTECTION DES PERSONNES. (TUBING FOR COOLING WATER DRAIN SHOULD HAVE PERSONNEL PROTECTION GUARD.)
  - 06-YY-3240-CALCUL LES DEBITS DE CONSIGNES BASE DU NOMBRE DE POMPES EN FONCTIONNEMENT. (06-YY-3240-CALCULATES A FLOW SETPOINT BASED ON NUMBER OF PUMPS RUNNING.)
- VALVE TAG NUMBERS ADDED.  
LAST VALVE TAG NUMBER USED: 133

ZIO	LT-3243 TRIM REVISED	11/01/07	CRM	PR	HN	GM
Z08	AS-BUILT	10/02/06	RA	JV	IAC	TJ
C08	RE-ISSUED FOR CONSTRUCTION	3/12/04	JDH	PAM	IAC	PAM/RP
C07	RE-ISSUED FOR CONSTRUCTION	24/08/04	DOJC	PAM	IAC	HN/RP
C06	ISSUED FOR CONSTRUCTION	11/03/04	DOJC	PAM/LIC	HN/RP	HN/RP
D05	RE-ISSUED FOR DESIGN	16/10/03	MBS	DOJ/PAM	IO	HN/RP
D04	ISSUED FOR HAZOP	8/8/03	MBS	JHS/PAM	IO	HN/BSW
D03	ISSUED FOR DESIGN	13/3/03	MBS	NRJR	IO	HN/RP
R02	ISSUED FOR CLIENT REVIEW	19/02/02	PAM	NRJR	AC	HN/RP
R01	ISSUED FOR IDC	7/11/02	HN	JHS	HN	HN/MJ
REV	REVISION DESCRIPTION	DATE	ORIG	PROC	CSE	APR
	signature boxes shall be completed in accordance with discipline quality control/QC procedures					

CLIENT

PROJECT IN AMENAS GAS PROJECT FOR BP / SONATRACH IN AMENAS, ALGERIA

TITLE PIPING AND INSTRUMENT DIAGRAM HOT OIL EXPANSION VESSEL AND CIRCULATION PUMPS

SCHEMA DE TUYAUTERIE ET D'INSTRUMENTATION POMPES DE DISTRIBUTION D'HUILE CHAUDE

WBS CODE	JGC/KBR PROJECT	DOC. TYPE	DISP.	ZONE	SYSTEM No.	SEQUENCE No.	REV.	IND
6877	DC - PS - 06 - 32 - 21412	Z10	F					