		MPRESSOR						DATE	5/4/2011	l	
							RIES ROY	PAGE NO.	1 OF 3		
1	CUSTOMER IFI	С							MODEL NUI	MBER	
2	USER & SITE IFIC			PJT. NO. not specified							
3	INQUIRY NO. not	NQUIRY NO. not specified		ITEM NO. COMPRESSOR					2083	3	
4	PPI QUOTE NO.	10-065-CP	REV. 3								
5	NO. REQ'D	NO. REQ'D WORKING on			0	TOTAL one (1)		PREPA	RED BY : JDP		
6				CUSTO	MER SUPPL	IED OPERATION C	CONDI	TIONS	· · · ·		
7	NORMAL MINIMUM MAXIMUM ALTER							ALTERNATE			
8	GAS HANDLED		XENON			<u> </u>					
9	MOLECULAR WEIGHT			131.00		(estimated)					
10	SPECIFIED CAPACITY		SLPM	200.0		50.0			100.0		
11			KG/HR	66.3		16.6			33.2		
12	 										
13				CUST	OMER SPEC	IFIED SUCTION C	ONDIT	IONS		I	
14	PRESSURE		BARG	10.0		10.0			10.0		
15	TEMPERATURE		C	40		(given)					
16	Cp/Cv		(K1)	1.66		(given)					
17	COMPRESSIBILITY		(Zs)	0.95		(estimated)					
18			1 .	CUSTO		FIED DISCHARGE	COND	ITIONS		I	
19	PRESSURE				(given)						
20	TEMPERATURE		C	NOT SPECIFIED		(given)					
21	Cp/Cv		(K2)	1.66		(given)					
22	COMPRESSIBILITY		(Zd)	0.93		(estimated)					
23						, ,					
24				C	OMPRESSO		E DATA	A			
25	MODEL NUMBER)83			
26	1ST STA	GE	NORMAL						MAXIMUM		ALTERNATE
20	SUCTION PRESSURE		BARG	10.0					10.34		ALIENNATE
27	CAPACITY @ DISCH F		SLPM	200		9.66			207.0		
20 29	ESTIMATED DISCH TE		C			54			46		
29 30	VOLUMETRIC EFFICIE		%	50 79.53%		79.38%			79.67%		
30	OPERATING ROD LOA		78 KGf	140		140			140		
31	COMPRESSION RATIO			140		140			140		
32 33		<u> </u>		1.1	•	1.1			1.1		
33 34	2ND STA	GE									
34 35	SUCTION PRESSURE		BARG	N/A	4	N/A			N/A		
35 36	CAPACITY @ DISCH PRESS		SLPM	N/A		N/A N/A			N/A N/A		
37		ESTIMATED DISCH TEMP (note a)		N/A		N/A			N/A		
38	VOLUMETRIC EFFICIE			N/A N/A		N/A N/A			N/A		
39	OPERATING ROD LOA			N/#		N/A N/A			N/A		
40	COMPRESSION RATIO		KGf	N/#		N/A N/A			N/A		
40		-									
42	ADIABATIC BHP		ĸw	0.0)	0.1			0.0		
43	REQUIRED MOTOR P	OWER	ĸw	3.7							
44	COOLING WATER RE		LPM	8							
45	OPERATING SPEED (RPM	34							
46	PISTON SPEED	·	M/SEC	0.7							
				5.7							
			+								
47											
	note a) temperature be	fore heat exchan	ger								

	GAS COMPRESSOR DATASHEET				TS INDUSTRIES	DATE		5/4/2	011		
	DATASHEET	PRESSU	PAGE NO.		2 OF 3						
1	CUSTOMER IFIC		MODEL NUMBER								
2	USER & SITE IFIC	PJT. NO.	PJT. NO. not specified								
3	INQUIRY NO. not specified		ITEM NO. COMPRESSOR					20	83		
4	PPI QUOTE NO. 10-065-CP REV. 3										
5	NO. REQ'D WORKING one (1)		STAND-BY	TOTAL one (1)	PREPARED BY : JDP						
6		·		HEAD ASSE	EMBLY DETAILS						
7			1ST ST	AGE	2ND STAGE						
8	HEAD CLOSURE TYPE		FLGD & BOLTED								
9	HEAD WORKING PRESSURE BARG		57								
10	HEAD DESIGN PRESSURE BARG		68								
11	HEAD DESIGN TEMPERATURE	С	246								
12	DISPLACEMENT / STROKE CM3		69.15								
13	BORE MM		38.1								
14	CAVITY DIAMETER MM		211.14								
15	HEAD COOLING FLUID		WATER								
16	LEAK DETECTION SYSTEM(2)		NOTE (2)								
17	PROCESS HEAD MATERIAL(4)		304 SS								
18	DIAPHRAGM CONSTRUCTION		TRIPLE METAL								
19	PROCESS DIAPH MATERIAL(4)		301 SST								
20	MAIN CLOSURE SEAL(4)		COPPER METAL								
21	SUCTION NOZZLE IN		1/2" TUBE								
22	DISCHARGE NOZZLE IN		1/2" TUBE								
23											
24	COMPRE	SSOR FRAME DE	TAILS					OTHER			
25	NUMBER OF STAGES/HEADS	1/16	PER STG		TYPI	E To	To be determined				
26	FRAME CONFIGURATION		VERTICAL		ELECTRIC MOTOR	MFG'R		To be determined			
27	STROKE MM		63.5		SPEC.	VOLTAGE		220V, 1PH, 50HZ			
28	MAXIMUM ROD LOAD KGf		680			HAZARD		ON EXPLOSI	VE		
29	RATED SPEED RPM		425		COMP'R LOCAT			INDOOR			
30	MAIN BEARING		TAPERED ROLLER		AREA CLASSIFIC	AREA CLASSIFICATION		NON EXPLOSIVE			
31	CON ROD/ CRANK BEARING		BABBITT JOURNAL		ELECTRICAL PC	ELECTRICAL POWER		250V, 1ph, 50hz			
32	CROSSHEAD BEARING		NEEDLE		PAINTING COLC	PAINTING COLOR		MANUFACTURER'S STANDARD			
33	CRANKSHAFT MATERIAL		80/55/6 DUCTILE		APPLICABLE CC	APPLICABLE CODE		MANUFACTURER'S STANDARD			
34	CONNECTION ROD MATL		80/55/6 DUCTILE		DUTY	DUTY		CONTINUOUS			
							50	5%			
35	CROSSHEAD MATL			IMINUM	PULSATION FLU	ICTUATION					
36	CROSSHEAD MATL DRIVER METHOD		E	BELT	TYPE OF APPLIC	CATION	RI	ECYCLE CON			
36 37	CROSSHEAD MATL DRIVER METHOD LUBRICATION		E FO	BELT DRCED	TYPE OF APPLIC	CATION NSIONS (a)	RI	ECYCLE CON 1524 L x	914 W x	1219 H M	
36 37 38	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER	MM	E FO	BELT DRCED 38.1	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH	CATION NSIONS (a)	RI		914 W x 816 F		
36 37 38 39	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER	MM	E FO : 17	BELT DRCED 38.1 7.4625	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL	CATION NSIONS (a) HT (a)	RI	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE	MM HRS	E FO : 17 20,4	BELT DRCED 38.1	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these dim	CATION NSIONS (a) HT (a) nensions and	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE	MM	E FO : 17 20,4	BELT IRCED 38.1 7.4625 468,022	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used	CATION NSIONS (a) HT (a) nensions and	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE DESIGN STA	MM HRS NDARD API-618	E FO 17 20,4 MODIFIED	BELT DRCED 38.1 7.4625 468,022 N	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES	CATION NSIONS (a) HT (a) nensions and	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE	MM HRS NDARD API-618 I compressor. Coo	E FO 3 17 20,4 WODIFIED	BELT BRCED 38.1 7.4625 468,022 N ement for afterco	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES oler given elsewhere.	CATION NSIONS (a) HT (a) nensions and for constructio	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43 44	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE 1.) total requirement for single stage 2.) the leak detection system is fully	MM HRS NDARD API-618 I compressor. Coc	E FO 17 20,4 MODIFIED ling water require signed to detect	BELT IRCED 38.1 7.4625 468,022 N ement for afterco both diaphragm	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES oler given elsewhere.	CATION NSIONS (a) HT (a) nensions and for constructio	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43 44 45	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE DESIGN STA 1.) total requirement for single stage 2.) the leak detection system is fully 3.) actual operating speed may vary	MM HRS NDARD API-618 I compressor. Coc integrated and de in order to achiev	E FO 3 17 20,4 MODIFIED ling water require signed to detect e guaranteed flo	BELT IRCED 38.1 2.4625 468,022 N ement for afterco both diaphragm w rate.	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES oler given elsewhere.	CATION NSIONS (a) HT (a) nensions and for constructio	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43 44 45 46	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE DESIGN STA 1.) total requirement for single stage 2.) the leak detection system is fully 3.) actual operating speed may vary 4.) The materials of construction give	MM HRS NDARD API-618 compressor. Coo integrated and de in order to achiev en in this quotation	E FO 17 20,4 MODIFIED ling water require signed to detect l e guaranteed flow n are for proposa	BELT PRCED 38.1 7.4625 468,022 N ement for afterco both diaphragm w rate. Il purposes only.	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES oler given elsewhere. leakage and head sea	CATION NSIONS (a) HT (a) nensions and for construction al leakage.	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43 44 45 46 47	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE DESIGN STA 1.) total requirement for single stage 2.) the leak detection system is fully 3.) actual operating speed may vary 4.) The materials of construction give PPI may make suggestions for a	MM HRS NDARD API-618 I compressor. Coor integrated and de in order to achiev en in this quotation material to user w	E FO 20,4 MODIFIED ling water require signed to detect 1 e guaranteed flor n are for proposa rith a specific me	BELT BRCED 38.1 7.4625 468,022 N ement for afterco both diaphragm w rate. Il purposes only. dia.These sugge	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES oler given elsewhere. leakage and head sea	CATION NSIONS (a) HT (a) nensions and for construction al leakage.	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43 44 45 46 47 48	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE DESIGN STA 1.) total requirement for single stage 2.) the leak detection system is fully 3.) actual operating speed may vary 4.) The materials of construction give PPI may make suggestions for a technical compatibility resources	MM HRS NDARD API-618 compressor. Coo integrated and de in order to achiev en in this quotation material to user w both through asso	E FO 3 17 20,4 MODIFIED ling water require signed to detect e guaranteed flo n are for proposa rith a specific me ociations and ma	3ELT PRCED 38.1 7.4625 468,022 N ement for afterco both diaphragm w rate. Il purposes only. dia.These sugge nufacturers.PPI of	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES IOIEr given elsewhere. leakage and head sea	CATION NSIONS (a) HT (a) nensions and for construction al leakage.	weight are	1524 L x	914 W x 816 F ISO 68		
36 37 38 39 40 41 42 43 44 45 46 47	CROSSHEAD MATL DRIVER METHOD LUBRICATION CRANKSHAFT DIAMETER WRIST PIN DIAMETER WRIST PIN BEARING L10 LIFE DESIGN STA 1.) total requirement for single stage 2.) the leak detection system is fully 3.) actual operating speed may vary 4.) The materials of construction give PPI may make suggestions for a	MM HRS NDARD API-618 I compressor. Cool integrated and de in order to achiev en in this quotation material to user w both through asso media, this is the	E FO 3 17 20,4 MODIFIED ling water require signed to detect e guaranteed flo n are for proposa with a specific me pociations and ma responsibility of	BELT PRCED 38.1 7.4625 468,022 N ement for afterco both diaphragm w rate. Il purposes only. dia.These sugge nufacturers.PPI of the user.Users n	TYPE OF APPLIC OVERALL DIMEN APPROX. WEIGH LUBE OIL note (a) these din may not be used IOTES oler given elsewhere. leakage and head sea	CATION NSIONS (a) HT (a) nensions and for construction al leakage.	weight are	1524 L x	914 W x 816 F ISO 68		

