| | | 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 | | |

