

Next

YORK INTERNATIONAL CORPORATION MULTISTAGE COMPRESSOR DATASHEET V.2006.2

CUSTOMER MUSTANG, FORT STOCKTON, TEXAS
SALES ORDER # 08-177539-01
JOB TYPE New Compressor

ISSUE DATE 11/26/2008
REV'N DATE 03-04-10

COMPR. ENG'R HEIMBERGER
CONTR. ENG'R FULLER

APPLICATION Refrigeration
DRIVER TYPE Motor, Fixed Speed
DESIGN DISCH. P 214 PSIA
DESIGN SPEED 3217 RPM
SHAFT POWER 3557 HP
COUPLING TYPE Riverhawk
COUPLING SIZE 3 IN
A1 OR A4 TYPE OF GAS SEAL A4
SEAL GAS FROM ST. DISCH. 5

MODEL 5 M 55 B/b 3
DESIGN GAS R-134A
NUMBER OF COMPRESSORS 11
NUMBER OF SPARE ROTORS 0
THRUST BRG Tilt-Pad
JOURNAL BRG Tapered Land
BRG HOUSE MAT ST(4340)
LUB / SEAL OIL TYPE J

Table with 5 columns (1ST to 5TH) and rows for IMP. MAT'L, IMP. SIZE, IMP. WIDTH, IMP. RIM DIA, IMP. TRIM %, IMP. BLADE D, IMP. EYE DIA, DIFF. TYPE %, DIFF. WIDTH, EYELABY, SHOULDER AT FIRST STAGE, INTERSTAGE NUMBER, INTERSTAGE LABY MAT'L, INTERSTAGE SHAFT SLEEVE, SHAFT SLEEVE MATERIAL, # SIDE LOAD CONNECTION, SIDE CONNECTION SIZE, 1ST SIDE CONN. POSITION, 2ND SIDE CONN. POSITION.

TITANIUM CLAMPING RINGS No

NEMA CLASSIFICATION 7
PERF. TEST FOR 0 DAYS
RUN-IN TEST TYPE 5 E
RUN-IN SPEED 3217 RPM
PRV HSG MAT CI(R-666T40)
PRV VANE MAT BR(R-857)
PRV SPECIAL CONN + CRES
WITH HAND WHEEL Yes
AUTO PRV TYPE 3-15 Pneu
AUTO PRV BY Kinetrol-14
PRV EX-LINKAGE MAT SS(R-786)
PRV GAUGE UNIT psi
EXTENDED PRV Yes
GAS SEAL RING MAT'L AL(R-1006)
A4 FILTER PART # BY FRICK
A4 FILTER QTY. BY FRICK
OIL FILTER PART # BY FRICK
OIL FILTER QTY. BY FRICK
FILTER ELEM. PART # BY FRICK
AUX OIL PUMP PART # BY FRICK
AUX OIL PUMP MANUF. BY FRICK
MULTIPOINT VALVE TYPE BY FRICK
MULTIPOINT VALVE MAT BY FRICK
M-PORT VALVE PART # BY FRICK
MULTIPOINT VALVE QTY. BY FRICK
OVERSIZED OIL PUMP Yes
BP MATERIAL AL(R-724)
BP DIAMETER 17.748 INCH
MAX BP CLEARANCE 0.015 INCH
MIN BP CLEARANCE 0.023 INCH
BP DRUM TURN 17.750/17.746 INCH
BP SEAL RING MAT'L AL(R-1006)
BP VENT TO STAGE INLET 3
NUMBER OF BP VENTS 2
THRUST COOLER PART # BY FRICK
THRUST COOLER QTY. 1
SUP. COOLER PART # NA
SUP. OIL COOLER QTY. 0
OIL COOLER TYPE Water
AMOT PART # BY FRICK

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OIL TEMP. SENSOR (IN OIL PIPING)	<input type="checkbox"/> MAIN SUPPLY SENSOR TYPE	TEMP. SENSOR QTY	1	TEMP. SENSOR PART #	BY FRICK
THERMOMETER MANUFACTURER	Thermometer	THERMOWELL QTY	1	THERMOWELL PART #	BY FRICK
THERMOCOUPLE MANUFACTURER	<input type="checkbox"/> SUCT. BEARING RET. SENSOR TYPE	TEMP. SENSOR QTY	1	TEMP. SENSOR PART #	BY FRICK
RTD MANUFACTURER	Thermometer	THERMOWELL QTY	1	THERMOWELL PART #	MANIFOLD ONLY
THERMOWELL MANUFACTURER	<input type="checkbox"/> THRUST BEARING DISCH. SENSOR TYPE	TEMP. SENSOR QTY	1	TEMP. SENSOR PART #	BY FRICK
	Thermometer	THERMOWELL QTY	1	THERMOWELL PART #	BY FRICK
	<input type="checkbox"/> OIL COOLER OUTLET SENSOR TYPE	TEMP. SENSOR QTY	1	TEMP. SENSOR PART #	BY FRICK
	Thermometer	THERMOWELL QTY	1	THERMOWELL PART #	BY FRICK
	<input type="checkbox"/> SUMP SENSOR TYPE	TEMP. SENSOR QTY	1	TEMP. SENSOR PART #	BY FRICK
	Thermometer	THERMOWELL QTY	1	THERMOWELL PART #	BY FRICK
<input type="checkbox"/> OTHER RTD LOC.	NA	OTHER RTD QTY		OTHER RTD PART #	
<input type="checkbox"/> OTHER RTD LOC.	NA	THERMOWELL QTY		THERMOWELL PART #	
		OTHER RTD QTY		OTHER RTD PART #	
		THERMOWELL QTY		THERMOWELL PART #	

PRESSURE GAUGE	<input checked="" type="checkbox"/> AFTER OIL FILTER	<input type="checkbox"/> PANEL CONNECTION	QTY	1	PART #	BY FRICK
PRESS. GAUGE MANUFACTURER	<input checked="" type="checkbox"/> BEFORE OIL FILTER	<input type="checkbox"/> PANEL CONNECTION	QTY	1	PART #	BY FRICK
	<input type="checkbox"/> DIFF. ACROSS FILTER	<input type="checkbox"/> PANEL CONNECTION	QTY		PART #	
	<input checked="" type="checkbox"/> BALANCE PISTON	<input type="checkbox"/> PANEL CONNECTION	QTY	1	PART #	BY FRICK
	<input checked="" type="checkbox"/> THRUST DISCH. OIL	<input type="checkbox"/> PANEL CONNECTION	QTY		PART #	BY FRICK
	<input checked="" type="checkbox"/> SUMP	<input type="checkbox"/> PANEL CONNECTION	QTY		PART #	BY FRICK
	<input checked="" type="checkbox"/> A4 GAS SEAL	<input type="checkbox"/> PANEL CONNECTION	QTY	1	PART #	BY FRICK

BEARING TEMP. SENSOR	<input type="checkbox"/> DISCHARGE END RADIAL BEARING	SENSOR QTY	1	SENSOR PART #	025-40030
SENSOR TYPE		FEEDTHROUGH QTY	1	FEEDTHROUGH PART #	025-39984
RTD		ALARM @	200 DEG. F	SHUTDOWN SETTING @	210 DEG. F
	<input type="checkbox"/> SUCTION END RADIAL BEARING	SENSOR QTY	1	SENSOR PART #	025-42814-000
		ADAPTER QTY		ADAPTER PART #	BY DRAFTING
		ALARM @	200 DEG. F	SHUTDOWN SETTING @	210 DEG. F

HEATERS	<input checked="" type="checkbox"/> SUMP	POWER	2500	WATTS	QTY	2	SUMP HEATER PART #	025-16703
	<input checked="" type="checkbox"/> SEAL RESERVOIR	POWER	1000	WATTS	QTY	1	SEAL HEATER PART #	025-29259

SWITCH & ALARM	<input type="checkbox"/> COMP. OIL PUMP PRESS. SWITCH	ON - SETTING	23	PSI	COP SWITCH PART #	BY FRICK
PRESS. SWITCH MANUFACTURER		OFF - SETTING	20	PSI		
	<input type="checkbox"/> AUX OIL PUMP PRESS. SWITCH	ON - SETTING	30	PSI	AOP SWITCH PART #	BY FRICK
HDT SWITCH/SENSOR MANUFACTURER		OFF - SETTING	33	PSI		
	<input type="checkbox"/> HIGH DISCH. TEMP. SWITCH / SENSOR	OFF-SET@	250	DEG. F	HDT SW. / SEN. PART #	BY FRICK
HOT SWITCH MANUFACTURER		ALARM @	240	DEG. F	THERMOWELL PART #	BY FRICK
	<input type="checkbox"/> HIGH OIL TEMP. SHUTDOWN SWITCH	OFF-SET@	185	DEG. F	HOT SWITCH PART #	BY FRICK
		ALARM @	175	DEG. F	THERMOWELL PART #	BY FRICK
	<input type="checkbox"/> LOW OIL LEVEL ALARM				LOW OIL ALA. PART #	BY FRICK
	<input type="checkbox"/> FILTER PRESS. DIFF. ALARM				FILTER DP ALA. PART #	BY FRICK

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VIBRATION PROBE & ACCESSORY: KEYPHASOR Yes, AXIAL PROBE Yes, DISCHARGE RADIAL PROBE Shaft, SUCTION RADIAL PROBE Yes, PROXIMITOR W/BOX No, ARMORED CABLE Yes. VIBRA. PROBE QTY, FEEDTHROUGH QTY, EXTEN. CABLE QTY. VIBRA. PROBE PART #, FEEDTHROUGH PART #, EXTEN. CABLE PART #. 7 METER SYSTEM, RADIAL ALARM@ 2 MIL, RADIAL VIB. SHUTDOWN SETTING 2.4 MIL.

SHAFT / ROTOR WEIGHT (LBS) SEE "ROTOR SHEET" FOR SHAFT WEIGHT AND ROTOR WEIGHT
ALLOWED UNBALANCE PER PLANE (GRAM-IN) SEE "ROTOR SHEET" FOR ALLOWABLE UNBALANCE PER PLANE

CASING: STAGE DRAINS Yes, CASING MAT CI(R-666T40), FLANGE TYPE RF, VERT JACK SCREW Yes, WATER INJECTION No. AMB TEMP 10 DEG. F, AMB TEMP 105 DEG. F. AXIAL SHAFT GROWTH RELATIVE TO AMBIENT TEMPERATURE 0.035 IN, -0.012 IN.

SUMP, PUMP, & PIPING: HEAT WRAP REQ'D No, SUMP MAT'L CI(R-666T40), SUMP VENT TO INLET OF STAGE 2, SUMP VENT VALVE TYPE Auto, MATERIAL FOR THE OIL JET PUMP BODY ST, JET PUMP NOZZLE MATERIAL ST, VENTED CENTRIFUGAL OIL PUMP REQUIRED Yes, ELIMINATOR SCREEN MATERIAL ST, SUCTION OIL CONNECTION AND ELBOW MATERIAL FOR THE JET PUMP ST, OIL PIPING MATERIAL DOWNSTREAM OF THE OIL FILTER SS.

SIGHT GLASSES IN OIL PIPING: THRUST DISCH No, SUCT BRG RETURN Yes. THRUST END SIGHT GLASSES PART NUMBER BY FRICK, SUCT BRG RETURN SIGHT GLASSES PART # 026-20791.

TOOL KIT & CABINET: # TOOL CABINET 2, NUM. OF TOOL KIT 2, TOOL KIT PART # 481-16904.

NAMEPLATE MAT STD SS, COMPANION FLANGE Not Provided, REDRAWN SCREWS FOR SOUR GAS No.

SPECIAL INSTRUCTION: SPECIAL CASING WITH 4 SIDE LOAD LOCATIONS INTO 2ND CORRECT 1ST SHEET FROM 3 TO 4 LOCATIONS NO SPARE PARTS OVERSIZE OILPUMP LAYOUT A SERIES 14 KINETROL AS POSSIBLE CONOMOTOR REPLACEMENT NO HEX HEAD OR FACE BSHGS IN HSGS, USE 3000# FITTINGS SERRATED FLANGES NO CAST IRON PARTS IN PIPING 275 MOMENTARY AT FINAL LEAK CHECK HOLD HYDRO 1/2 HR 316 SS TUBING (ALL), SEE ADDITIONAL ITEMS ATTACHED

SEE "QCI-50" FOR REQUIRED CERTIFICATIONS, DOCUMENTAIONS, AND WITNESSED OR OBSERVED TESTS

BILL OF MATERIALS PRE-PRELIST PRELIST SALES ORDER ORDER EDIT ENTRIES NAMEPLATE SHEET ROTOR SHEET XLTRC2 LATERAL MODEL SUCTION BEARING FILES (3) DISCHARGE BEARING FILES (3) MECHANICAL RUN-IN SHEET SCHEDULING CHECK LIST RESTAGE LIST QCI-50 QCI-766 PRINT DATASHEET GENERATE FILES EXIT DATASHEET

* EXISTING HARDWARE NOT REQUIRED FOR THIS ORDER