

PROJECT NAME KING ABDULLAH
 BIN ABDULAZIZ PROJECT
 THIRD SAUDI EXPANSION
 OF HOLY HARAM MAKKAH
 AND SURROUNDING AREAS
 CENTRAL UTILITY COMPLEX
 AND SERVICE TUNNEL

PURCHASE ORDER NO JSFP-2947 JSFP-2947
 SUPPLIER YORK, A JOHNSON CONTROLS CO.
 YORK, PA

JCI-TORR ORDER NO. OJ060251-02, IJ060034-02
 EQUIPMENT COMPRESSORS FOR
 TITAN OM-5090 H-134A
 MOTOR DRIVE CHILLERS

NOTES:
 1. FOR FLOW DIAGRAM LEGEND SEE YORK DWG. 076-78325E.
 2. PRESSURES AND TEMPERATURES ON THE DIAGRAM ARE APPLICABLE TO THE FULL LOAD RUNNING CONDITION AT DESIGN SPEED 3658 RPM.

COMPR. PRESSURE CONNECTIONS

- C-1 - SHAFT PUMP OIL PRESSURE TO PT-144
- C-2 - SUPPLY OIL PRESSURE TO PT-140
- C-3 - SUMP PRESSURE TO PT-143
- C-4 - BEFORE OIL FILTER PRESSURE
- C-5 - AIR SIGNAL TO SUMP VENT VALVE
- C-6 - BALANCE PISTON PRESSURE TO PT-146
- C-9 - OIL SEPARATOR RETURN CONNECTION
- C-19A - MECHANICAL SEAL OIL RECLAIM RETURN
- C-20 - BRG. SUPPLY OIL PRESSURE (SECONDARY)
- C-37 - OIL COOLER OUTLET TEMP.
- C-50 - INLET OF JET PUMP

RTD'S

- TT-113 - COMPR. DISCH. GAS TEMP.
- TT-142 - SUCT. END BRG. RTN. TEMP.
- TT-147 - THRUST DISCHARGE OIL TEMP.

SWITCHES

- PDSL-140A - COMPR. OIL PRESS. SHUTDOWN
- LSL-143 - LOW SUMP OIL LEVEL
- PDSL-144 - COMPR. AUX. OIL PUMP CONTROL
- TSHH-147A - COMPR. HIGH THRUST OIL TEMP. SHUTDOWN

THERMOMETERS

- TI-140 - COMPR. BEARING SUPPLY OIL TEMP.
- TI-142A - COMPR. SUCT. BEARING RETURN OIL TEMP.
- TI-143 - COMPR. SUMP OIL TEMP.
- TI-145A - COMPR. OIL COOLER OUTLET OIL TEMP.
- TI-147A - COMPR. THRUST OIL TEMP.

GAUGES

- PI-140A - COMPR. BEFORE FILTER OIL PRESS.
- PI-140B - COMPR. BEARING SUPPLY OIL PRESS.
- PI-143A - COMPR. SUMP OIL PRESS.
- PI-145C - OIL COOLER OUTLET PRESS.
- PI-146A - COMPR. BALANCE PISTON PRESS.
- PI-147 - COMPR. THRUST OIL PRESS.

ALL OPERATING POINTS

FUNCTION	SYMBOL	SAFETY CONTROL OPERATING POINTS	
		ALARM	SHUTDOWN
BRG. OIL SUPPLY PRESS.	PDSL-140A	-----	20.0 PSI
AOP START	PDSL-144	30.0 PSI	-----
BEARING OIL PRESSURE	PDSL/PDSL-140	23.0 PSI	20.0 PSI
OIL FILTER	PDSH-144A	17.0 PSI *	----
BAL. PISTON ΔP INDICATOR	PDSH-146	15.1 PSI	----
SUCT. END BRG. OIL TEMP.	TSH/TSHH-142	175.0°F	185.0°F
REFRIG. DISCHARGE TEMP.	TSH/TSHH-113	210.0°F	226.0°F
THRUST BEARING OIL TEMP.	TSH/TSHH-147	175.0°F	185.0°F
THRUST BEARING OIL TEMP.	TSHH-147A	-----	185.0°F
RADIAL PROBES	YSH/YSHH-141/142	2.0 MIL	2.4 MIL
AXIAL PROBE	ZSH/ZSHH-141A	SEE SECTIONAL DRAWING SHEET 2	

* - THIS VALUE MAY BE FIELD ADJUSTED.

OJ060251-02 & IJ060034-02

YORK INTERNATIONAL CORPORATION
 YORK, PA. 17405

REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.	REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.	REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.	REV. NO.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
-	NEW																						
A	08-22-10	OM 5090 WAS OM 5000 AT G-1	2949	DBG	BLK																		
B	09-24-10	ADDED JSFP-2947 AT H-IJ060034-02 AT G-1 & A-3, OJ060251-02 WAS S008-3002-02 AT G-1	3000	DBG	MS																		

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DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG.

DIAG., OIL FLOW M255A44 MULTI-STAGE TURBO COMPR.

MATERIAL TYPE ENG. STD. PART NO. OUT SIZE

NAME DATE SIZE CAGE NO DRAWING NUMBER
 DR. B. L. KNAUB 06-29-10 E 66935 081-17944-000
 APPR. M. SHNEIDER 09-20-10
 SCALE: N.T.S.

WT. = LBS. ORIG. NO. 081-16433 SHEET

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