V-040 | V-045 | V-050 | K-400 | C-350A/B/C | BH-703A/B/C/D/E | P-520

ENERFLEX SYSTEMS LTD.
DRIVER : WAUKESHA 9390GL kW
COMPRESSOR : ARIEL JGK/4

COOLER
AIR-X-CHANGER
MODEL 120EN

BUILDING HEATER
(5) REQUIRED
RUFFNECK MODEL HP5-30
1/2 HP 1/60/110 VAC

LUBE OIL PUMP

COMPRESSOR BUILDING OUTLINE

PROCESS GAS
9059-D-1300
8"-A-PG-1309

9059-D-1300
2"-A-FG-2133

FUEL GAS
FUEL GAS
9059-D-1500
2"-A-FG-1705

START GAS
9059-D-1500
2"-A-FG-1600

VENT
9059-D-1500
6"-A-V-2000

F-265 DRAIN
9059-D-1300
2"-A-WHD-1316

V-035 DRAIN
9059-D-1300
2"-A-WHD-1317

DRAIN
9059-D-1500
2"-A-WHD-1505

LUBE OIL DRAIN
9059-D-1500
2"-A-LO-1504

FUEL GAS K-420
93090-2100
2"-A-FG-2105

START GAS K-420
93090-2100
2"-A-FG-2104

VENT
9059-D-1300
4"-A-V-1312

INST. AIR
9059-D-1900
1"-A7-IA-1906

FUEL GAS
9059-D-1700
2"-A-FG-1705

START GAS
9059-D-1600
2"-C-FG-1600

VENT
9059-D-2000
6"-A-V-2000

FINAL DISCH.
9059-D-1600
4"-C4-PG-1402

VENT
9059-D-2000
3"-A-V-1412

FROM LUBE OIL
9059-D-2000
TANK S-520

LUBE OIL TO K-405
9059-D-1500

LUBE OIL TO K-420
93090-2100

TO EAVE
O/S BLDG.

TO S-506
9059-D-1500
2"-A-V-2119

TO S-506
9059-D-1500
2"-A-V-2120

HEAT MEDIUM SUPPLY
9059-D-1800

HEAT MEDIUM RETURN
9059-D-1800

DRAIN
9059-D-2000

LUBE OIL DRAIN
9059-D-2000

S-520
HEAT MEDIUM SUPPLY
9059-D-2000

S-520
HEAT MEDIUM RETURN
9059-D-2000

K-400 COMPRESSOR SKID OUTLINE

COMPRESSOR BUILDING OUTLINE

CONSOLIDATED 1905 FC. SET @ 220PSIG
TO FLARE
3/4"x1" SET @ 635PSIG
PSV 040
PSV 040A
8"-BA-100
F.P.
8"-150
V-040
36" DIA. STG. 1 SCRUBBER 220 MAWP
LSHH 040
LAHH 040
LC 040
LG 040
LV 040
1/2" TUBING
TO ENGINE GOVERNOR
9-15 PSIG IN 3-15 PSIG OUT
3-9 PSIG IN 3-15 PSIG OUT
PY 400
PC 400
PY 400A
PY 400B
PV 400
2" 3"x2"
2"-900 RTJ FO 3"-900 RTJ
900 150 RF
RTU
MIC 400
I/A
1 1/2"-150# x 2"-150#

K-400 GAS COMPRESSOR 1 st STAGE
SET @ 27°C
TE 400A
SCN
TI 400A
TAHH 400A
PI 400
PSLL 400
MIC
PALL 400
SET @ 910kPa
24" DIA. 230 MAWP
VVCP
13 5/8"ø 635MAWP
SET @ 99°C
TE 402B
TI 402B
TAHH 400B
TE 400B
PAHH 400
PSHH 400
PI 401
TI 402C
TE 400C
TAHH 400C
SET @ 3100kPa
13 5/8"ø 635MAWP
CONSOLIDATED 1910 HC 2"-300# RF SET @ 635 PSIG
PSV 400
24" DIA. 230 MAWP
LPD
6"-300 RF

C-350A INTER COOLER 1 st STAGE
4"-A-V-1403
4"-150 RF VENT OUT
HAILGUARD BUG SCREEN
6"-600 RF
I.C. 1 700 MAWP
TC 350

K-400 GAS COMPRESSOR 2 nd STAGE
PI 402
TI 403A
16" DIA. 645MAWP
6"-300
LPD
V-045
30" DIA. STG. 2 SCRUBBER 645 MAWP
LSHH 045
LAHH 045
LC 045
LG 045
LV 045
1/2" TUBING
4"-600 RF
TI 403B
12" DIA. 900MAWP

K-400 GAS COMPRESSOR 3 rd STAGE
VCP
9 5/8"ø 1390MAWP
SET @ 121°C
TAHH 400D
TI 400D
SET @ 5583kPa
TI 403C
PSHH 401
TE 400D
SCN
MIC
PAHH 401
PI 403
16" DIA. 900MAWP
LPD
6"-600 RF
VVCP
SET @ 10340kPa
6 1/4"ø 2050MAWP
TI 403D
PSHH 402
TE 400E
SCN
TI 400E
TAHH 400E
SET @ 138°C
12" DIA. 1550MAWP
PAHH 402
PI 405
4"-900 RTJ
CONSOLIDATED 1914 GC 11/2" RTJ SET @ 1550PSIG
CONSOLIDATED 1912 HC 2"-600# RF SET @ 900PSIG
PSV 401
PSV 402

C-350B INTER COOLER 2 nd STAGE
4"-C4-PG-1402
I.C. 2 900 MAWP
TC 355
TI 360
A.C. 1600 MAWP
TC 360

C-350C AFTER COOLER 3 rd STAGE

COMPRESSOR CONTROL PANEL
PLC
UY 400
REMOTE SHUTDOWN
PLC
US 400
K-400 STATUS

V-050
24" DIA. STG. 3 SCRUBBER 900 PSIG
PI 404
4"-600
LSHH 050
LAHH 050
LC 050
LG 050
LV 050
1/2" TUBING
2"X1"
2"-150
2"-A-WHD-1401

ENGINE OIL PRESSURE
COMPRESSOR OIL PRESSURE
LUBRICATOR LOW FLOW CYLINDERS 1 & 3
LUBRICATOR LOW FLOW CYLINDERS 2 & 4
COMPRESSOR OIL PRESSURE
ENGINE OIL PRESSURE
ENGINE JACKET WATER PRESSURE
COOLER VIBRATION
ENGINE VIBRATION
COMPRESSOR VIBRATION
ENGINE OIL LEVEL
COMPRESSOR OIL LEVEL
MAIN JACKET WATER LEVEL
AUXILLARY JACKET WATER LEVEL
COMPRESSOR PRELUBE PERMISSIVE
ENGINE PRELUBE PERMISSIVE
SET @ 382°C ENGINE CYLINDER TEMPERATURES
TYPICAL FOR 16 A THRU R
SET @ 93°C ENGINE JACKET WATER TEMPERATURE
SET @ 93°C ENGINE OIL TEMPERATURE
SET @ 82°C COMPRESSOR OIL TEMPERATURE
SET @ 68°C ENGINE MANIFOLD TEMPERATURE L.B.
SET @ 68°C ENGINE MANIFOLD TEMPERATURE R.B.
2"-150 RF ENGINE LUBE OIL DRAIN
2"-A-LO-1406

2"x3/8" 3/8" TUBE INSTR. AIR SUPPLY
2"x1 1/2" 1 1/2"-150 RF FUEL GAS SUPPLY
2"-150 RF START GAS SUPPLY
2"-A-FG-1400
CONSOLIDATED 1905 PC 1 1/2" x 2" SET @ 150PSIG
PSV 408
PI 267
PCV 406 SET @ 125PSIG
3"x2"
1/2"
2"-A-FG-1420
BA-600
2"-600
2"-C-FG-1600
6"x4"
2"
A
C
1"
2"x1"
2"-900# RTJ PISTON CHECK VALVE
3"-D4-PG-2107
K-420 DISCHARGE 93090-1500
3"x2"
ATM.
O/S BLDG.
EXHAUST MUFFLER
14"-125 FF ENGINE EXHAUST
14"-A-V-1404
16"-150 FF
16"-A-V-1405
AIR INTAKE FILTER
1"-A-LO-2115
1"-A-LO-2112
1'-A-LO-2124
LUBE OIL DAY TANK
P-520 LUBE OIL PUMP
BH-703A/B/C/D/E (TYP. FOR 5)
1"-A-LO
3/4" GA-809 DRAIN
1 1/2" GL-800
3"-A-V-1407
START GAS EXHAUST
1"-NPT
1"-A-V-1408
PACKING VENT & DRAIN
1"-A-V-1409
DISTANCE PIECE VENT & DRAIN
COMPR. OIL MAKE-UP
ENGINE OIL MAKE-UP
2"x11/2"
11/2"H
11/2"-A-HMG
93090-2100
K-420
3/4" VENT
GA-809
GA-800
2"-A-HMG-2108-1 1/2"H
2"-A-HMG-2109-1 1/2"H
3"-A-HMG-1801-11/2"H
2" GA
3"-A-HMG-1802-11/2"H
2"-A-WHD-1505
2"-A-LO-1504
2"-A-HMG-2113-1 1/2"H
2"-A-HMG-2114-1 1/2"H

NOTES	NUMBER	REFERENCE DRAWING	REV. NO.	REVISION	BY	DATE	CKD.
			A	ISSUED FOR APPROVAL	HMF	93/08/19	
			B	ISSUED FOR TENDER	DMM	93/08/30	
			C	SCOPE MODIFICATIONS	LMA	93/09/08	
			0	ISSUED FOR CONSTRUCTION	LMA	93/09/13	
			1	AS BUILT	DB	94/08/11	
			2	1995 MODIFICATIONS	CDK	95/11/01	

SCALE : NONE
DRAWN BY HMF DATE 93/08/19
CHECKED BY DATE
DESIGNED BY DATE
APPROVED BY DATE

CLIENT ANDERSON OIL & GAS INC.
PROJECT KIRBY LAKE GAS PROJECT
TITLE COMPRESSOR STATION LSD 11-04-75-05 W4M
PIPING & INSTRUMENTATION DIAGRAM
GAS COMPRESSOR K-400

PROJECT NO. 9059 | CAD. NO. 90591400 | DWG. NO. 9059-D-1400 | REVISION 2
AFE NO. | PRINT ISSUED | SHEET 1 OF 1

GAS LIQUIDS ENGINEERING LTD.
- GAS PURIFICATION
- REFRIGERATION
- CRYOGENICS
- DISTILLATION
- FACILITIES ENGINEERING

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