

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION: Ventura County
JOB/REF: SCVGP HP Sales PL
ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
MODEL F3521GSI

DRESSER-RAND
A Siemens Business

AMBIENT T (F) : 100.0
REF TEMP. (F) : 60.0
COMPRESSOR DATA
MODEL 5.5 RDS 2
STROKE (IN) 5.500
ROD DIA (IN) 2.125

ALTITUDE (FT) 0
REF PRESS (PSIA) 14.6960
RATED RPM 1000
CALC RPM 1000
Calc PS (FPM) 916.67

DRIVER (HP) 738
COOLER (HP) 25

Stage Number		1	2
Gas		SWEETNAT	SWEETNAT
Dry Gas Mol. Weight		18.827	18.827
Dry Gas Spec. Gravity		0.650	0.650
Cp/Cv @ 14.7/60		1.277	1.277
Avg. Temp. Expon. (K)		1.253	1.272
Avg. Vol. Expon. (N)		1.249	1.264
Gas Crit. Temperature	F	-75.603	-75.603
Gas Crit. Pressure	PSIA	675.548	675.548
Z Standard		0.998	0.998
Z Suction		0.969	0.938
Z Discharge		0.967	0.937
Inlet Temperature	F	130.00	120.00
Inlet Line Pressure	PSIG	250.00	
Inlet Press. @ Cyl Flg	PSIG	247.22	471.83
Interstage Press. Drop	%	3.44	0.00
Disch. Press. @ Cyl Flg	PSIG	489.18	652.96
Disch. Line Pressure	PSIG		650.00
Ratio of Compression		1.924	1.372
Adiabatic Disch. Temp.	F	213.38	160.58
Est Actual Disch Temp	F	230.69	174.07
Stg. Piston Displ.	CFM	439.9	168.7
Stg. Inlet Capacity	ACFM	303.2	154.6
CAPACITY ACTUAL WET	MMSCFD	7.06	7.02
CAPACITY ACTUAL DRY	MMSCFD	7.00	7.00
TOTAL COMPRESSOR POWER	HP	465.09	

Stage number at (HE/CE)		1/1	2/2
Frame Ext/Cyl. Bore	#/IN	1/ 9.500	2/ 6.000
Cylinder Pattern		GN2820AA	G3806L
RDP	PSIG	1000.0	1750.0
MAWP	PSIG	1100.0	1925.0
Cyl. Action/HE Rod Dia.	Act./IN	DA/ 0.00	DA/ 0.00
Brake power / Cylinder	HP	302.1	148.4
Capacity Wet/ Cylinder	MMSCFD	7.06	7.02
HE Disch. Vol. Eff.	%	31.54	71.47
CE Disch. Vol. Eff.	%	50.60	71.16
HE Inlet Vol. Eff.	%	53.25	91.80
CE Inlet Vol. Eff.	%	85.43	91.40
Avg. Inlet Vol. Eff.	%	69.34	91.60
HE Clearance Req'd.	%	62.64	17.50
HE Clearance Min.	%	16.10	17.50
HE Pocket Open	%	42.74	0.00
HE Clearance Added	IN3	181.5	0.0
CE Clearance Req'd.	%	15.90	18.90
CE Clearance Min.	%	15.90	18.90
CE Clearance Added	IN3	0.0	0.0
Valve Model - HE			
Valve Model - CE			
Valves/Corner (HES/HED/CES/CED)		1/1/1/1	1/1/1/1
Valve Lift - HE	IN	0.080	0.080
Valve Lift - CE	IN	0.080	0.080
Valve Lift Area - HE	SQIN	7.362	3.626
Valve Lift Area - CE	SQIN	7.362	3.626
API Inlet Vlv Vel Avg.	FPM	8605.0	6699.6
Internal Gas Load - T	LBF	21196	5094
Internal Gas Load - C	LBF	-23387	-9334
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	16864	26100
Combined Rod Load - C	LBF	-22078	-23236
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	175.0	160.0