

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

AMBIENT T (F) :	100.0	ALTITUDE (FT)	0	ATM PRESS (PSIA)	14.6960
REF TEMP. (F) :	60.0	REF PRESS (PSIA)	14.6960	LUBRICATED	
COMPRESSOR DATA				DRIVER DATA	
MODEL	5.5 RDS 2	RATED RPM	1000	TYPE	Engine
STROKE (IN)	5.500	CALC RPM	1000	MANUF	Waukesha
ROD DIA (IN)	2.125	Calc PS (FPM)	916.67	MODEL	F3521GSI
DRIVER (HP)					615
COOLER (HP)					0

Stage Number		1	
Gas		SWEETNAT	
Dry Gas Mol. Weight		17.407	
Dry Gas Spec. Gravity		0.601	
Cp/Cv @ 14.7/60		1.293	
Avg. Temp. Expon. (K)		1.264	
Avg. Vol. Expon. (N)		1.272	
Gas Crit. Temperature	F	-96.511	
Gas Crit. Pressure	PSIA	671.383	
Z Standard		0.998	
Z Suction		0.974	
Z Discharge		0.979	
Inlet Temperature	F	120.00	
Inlet Line Pressure	PSIG	250.00	
Inlet Press. @ Cyl Flg	PSIG	246.20	
Interstage Press. Drop	%	0.00	
Disch. Press. @ Cyl Flg	PSIG	748.32	
Disch. Line Pressure	PSIG	740.00	
Ratio of Compression		2.925	
Adiabatic Disch. Temp.	F	265.82	
Est Actual Disch Temp	F	290.69	
Stg. Piston Displ.	CFM	383.0	
Stg. Inlet Capacity	ACFM	279.1	
CAPACITY ACTUAL WET	MMSCFD	6.56	
CAPACITY ACTUAL DRY	MMSCFD	6.51	
TOTAL COMPRESSOR POWER	HP	468.09	

Stage number at (HE/CE)		1/1	1/1
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	SACE/ 0.00	DA/ 0.00
Brake power / Cylinder	HP	263.4	190.0
Capacity Wet/ Cylinder	MMSCFD	3.74	2.82
HE Disch. Vol. Eff.	%	0.00	31.00
CE Disch. Vol. Eff.	%	31.91	30.21
HE Inlet Vol. Eff.	%	0.00	72.07
CE Inlet Vol. Eff.	%	74.19	70.21
Avg. Inlet Vol. Eff.	%	37.09	71.14
HE Clearance Req'd.	%	16.10	17.50
HE Clearance Min.	%	16.10	17.50
HE Pocket Open	%	0.00	0.00
HE Clearance Added	IN3	0.0	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	37981	13283
Internal Gas Load - C	LBF	-7985	-17397
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29943	18707
Combined Rod Load - C	LBF	-20370	-18013
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	85.0	165.0