

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.937
Adiabatic Disch. Temp. F 265.20
Est Actual Disch Temp F 290.92
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 277.8
CAPACITY ACTUAL WET MMSCFD 5.27
CAPACITY ACTUAL DRY MMSCFD 5.22
TOTAL COMPRESSOR POWER HP 382.18

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 213.6 154.0
Capacity Wet/ Cylinder MMSCFD 3.00 2.27
HE Disch. Vol. Eff. % 0.00 30.65
CE Disch. Vol. Eff. % 31.57 29.85
HE Inlet Vol. Eff. % 0.00 71.72
CE Inlet Vol. Eff. % 73.87 69.85
Avg. Inlet Vol. Eff. % 36.93 70.79
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 31047 10878
Internal Gas Load - C LBF -6513 -14211
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 19965
Combined Rod Load - C LBF -19347 -17680
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.806
Adiabatic Disch. Temp. F 258.87
Est Actual Disch Temp F 283.81
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 283.8
CAPACITY ACTUAL WET MMSCFD 5.63
CAPACITY ACTUAL DRY MMSCFD 5.59
TOTAL COMPRESSOR POWER HP 390.19

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 218.1 157.5
Capacity Wet/ Cylinder MMSCFD 3.21 2.43
HE Disch. Vol. Eff. % 0.00 32.50
CE Disch. Vol. Eff. % 33.39 31.72
HE Inlet Vol. Eff. % 0.00 73.32
CE Inlet Vol. Eff. % 75.33 71.56
Avg. Inlet Vol. Eff. % 37.67 72.44
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 30321 10593
Internal Gas Load - C LBF -6572 -13954
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 20228
Combined Rod Load - C LBF -19914 -18035
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.687
Adiabatic Disch. Temp. F 252.84
Est Actual Disch Temp F 277.07
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 289.2
CAPACITY ACTUAL WET MMSCFD 6.01
CAPACITY ACTUAL DRY MMSCFD 5.96
TOTAL COMPRESSOR POWER HP 397.07

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 222.0 160.5
Capacity Wet/ Cylinder MMSCFD 3.41 2.59
HE Disch. Vol. Eff. % 0.00 34.33
CE Disch. Vol. Eff. % 35.19 33.57
HE Inlet Vol. Eff. % 0.00 74.80
CE Inlet Vol. Eff. % 76.68 73.15
Avg. Inlet Vol. Eff. % 38.34 73.97
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 29967 10311
Internal Gas Load - C LBF -6631 -13830
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 20491
Combined Rod Load - C LBF -19964 -18390
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.577
Adiabatic Disch. Temp. F 247.07
Est Actual Disch Temp F 270.66
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 294.3
CAPACITY ACTUAL WET MMSCFD 6.38
CAPACITY ACTUAL DRY MMSCFD 6.33
TOTAL COMPRESSOR POWER HP 402.88

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 225.3 163.0
Capacity Wet/ Cylinder MMSCFD 3.62 2.76
HE Disch. Vol. Eff. % 0.00 36.14
CE Disch. Vol. Eff. % 36.98 35.41
HE Inlet Vol. Eff. % 0.00 76.17
CE Inlet Vol. Eff. % 77.94 74.62
Avg. Inlet Vol. Eff. % 38.97 75.39
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 29249 10157
Internal Gas Load - C LBF -6691 -13578
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 20753
Combined Rod Load - C LBF -20533 -18744
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.476
Adiabatic Disch. Temp. F 241.54
Est Actual Disch Temp F 264.56
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 299.0
CAPACITY ACTUAL WET MMSCFD 6.75
CAPACITY ACTUAL DRY MMSCFD 6.71
TOTAL COMPRESSOR POWER HP 407.67

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 228.0 165.1
Capacity Wet/ Cylinder MMSCFD 3.83 2.92
HE Disch. Vol. Eff. % 0.00 37.94
CE Disch. Vol. Eff. % 38.76 37.23
HE Inlet Vol. Eff. % 0.00 77.44
CE Inlet Vol. Eff. % 79.10 75.98
Avg. Inlet Vol. Eff. % 39.55 76.71
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 28535 9878
Internal Gas Load - C LBF -6751 -13327
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 21016
Combined Rod Load - C LBF -20788 -19099
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.974
Z Discharge 0.976
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 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.382
Adiabatic Disch. Temp. F 236.25
Est Actual Disch Temp F 258.74
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 303.4
CAPACITY ACTUAL WET MMSCFD 7.13
CAPACITY ACTUAL DRY MMSCFD 7.08
TOTAL COMPRESSOR POWER HP 411.49

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 230.2 166.7
Capacity Wet/ Cylinder MMSCFD 4.04 3.09
HE Disch. Vol. Eff. % 0.00 39.72
CE Disch. Vol. Eff. % 40.52 39.03
HE Inlet Vol. Eff. % 0.00 78.62
CE Inlet Vol. Eff. % 80.19 77.25
Avg. Inlet Vol. Eff. % 40.09 77.93
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 28142 9711
Internal Gas Load - C LBF -6811 -13173
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 21278
Combined Rod Load - C LBF -20837 -19453
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

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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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.272
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.295
Adiabatic Disch. Temp. F 231.16
Est Actual Disch Temp F 253.16
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 307.5
CAPACITY ACTUAL WET MMSCFD 7.50
CAPACITY ACTUAL DRY MMSCFD 7.46
TOTAL COMPRESSOR POWER HP 414.40

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 231.9 167.9
Capacity Wet/ Cylinder MMSCFD 4.25 3.26
HE Disch. Vol. Eff. % 0.00 41.49
CE Disch. Vol. Eff. % 42.26 40.82
HE Inlet Vol. Eff. % 0.00 79.73
CE Inlet Vol. Eff. % 81.20 78.44
Avg. Inlet Vol. Eff. % 40.60 79.08
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 27434 9433
Internal Gas Load - C LBF -6871 -12925
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 21540
Combined Rod Load - C LBF -21302 -19795
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

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PACKAGER:
LOCATION:
JOB/REF:

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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.215
Adiabatic Disch. Temp. F 226.27
Est Actual Disch Temp F 247.82
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 311.4
CAPACITY ACTUAL WET MMSCFD 7.88
CAPACITY ACTUAL DRY MMSCFD 7.84
TOTAL COMPRESSOR POWER HP 416.43

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 233.1 168.7
Capacity Wet/ Cylinder MMSCFD 4.46 3.43
HE Disch. Vol. Eff. % 0.00 43.25
CE Disch. Vol. Eff. % 43.99 42.60
HE Inlet Vol. Eff. % 0.00 80.76
CE Inlet Vol. Eff. % 82.15 79.55
Avg. Inlet Vol. Eff. % 41.08 80.16
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 26989 9157
Internal Gas Load - C LBF -6930 -12679
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 21803
Combined Rod Load - C LBF -21490 -20052
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 105.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.140
Adiabatic Disch. Temp. F 221.56
Est Actual Disch Temp F 242.68
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 315.0
CAPACITY ACTUAL WET MMSCFD 8.26
CAPACITY ACTUAL DRY MMSCFD 8.22
TOTAL COMPRESSOR POWER HP 417.62

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 233.9 169.1
Capacity Wet/ Cylinder MMSCFD 4.67 3.59
HE Disch. Vol. Eff. % 0.00 44.99
CE Disch. Vol. Eff. % 45.71 44.36
HE Inlet Vol. Eff. % 0.00 81.74
CE Inlet Vol. Eff. % 83.05 80.59
Avg. Inlet Vol. Eff. % 41.52 81.17
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 26284 8973
Internal Gas Load - C LBF -6989 -12491
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 22065
Combined Rod Load - C LBF -21536 -20392
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 120.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.069
Adiabatic Disch. Temp. F 217.01
Est Actual Disch Temp F 237.75
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 318.4
CAPACITY ACTUAL WET MMSCFD 8.65
CAPACITY ACTUAL DRY MMSCFD 8.60
TOTAL COMPRESSOR POWER HP 418.00

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 234.2 169.2
Capacity Wet/ Cylinder MMSCFD 4.88 3.76
HE Disch. Vol. Eff. % 0.00 46.72
CE Disch. Vol. Eff. % 47.41 46.11
HE Inlet Vol. Eff. % 0.00 82.66
CE Inlet Vol. Eff. % 83.89 81.58
Avg. Inlet Vol. Eff. % 41.94 82.12
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 25582 8698
Internal Gas Load - C LBF -7048 -12246
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 22327
Combined Rod Load - C LBF -21653 -20712
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 130.0 160.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.970
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 606.79
Disch. Line Pressure PSIG 600.00
Ratio of Compression 2.004
Adiabatic Disch. Temp. F 212.62
Est Actual Disch Temp F 232.99
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 321.6
CAPACITY ACTUAL WET MMSCFD 9.03
CAPACITY ACTUAL DRY MMSCFD 8.98
TOTAL COMPRESSOR POWER HP 417.62

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 234.1 168.9
Capacity Wet/ Cylinder MMSCFD 5.10 3.93
HE Disch. Vol. Eff. % 0.00 48.43
CE Disch. Vol. Eff. % 49.10 47.84
HE Inlet Vol. Eff. % 0.00 83.52
CE Inlet Vol. Eff. % 84.68 82.51
Avg. Inlet Vol. Eff. % 42.34 83.01
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 25076 8492
Internal Gas Load - C LBF -7105 -12023
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 22589
Combined Rod Load - C LBF -22041 -20808
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 135.0 160.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.985
Adiabatic Disch. Temp. F 267.54
Est Actual Disch Temp F 293.49
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 275.7
CAPACITY ACTUAL WET MMSCFD 5.23
CAPACITY ACTUAL DRY MMSCFD 5.18
TOTAL COMPRESSOR POWER HP 385.15

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 215.3 155.2
Capacity Wet/ Cylinder MMSCFD 2.98 2.25
HE Disch. Vol. Eff. % 0.00 30.02
CE Disch. Vol. Eff. % 30.95 29.21
HE Inlet Vol. Eff. % 0.00 71.16
CE Inlet Vol. Eff. % 73.35 69.24
Avg. Inlet Vol. Eff. % 36.68 70.20
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 31803 11009
Internal Gas Load - C LBF -6598 -14530
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 19762
Combined Rod Load - C LBF -19166 -17574
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.852
Adiabatic Disch. Temp. F 261.20
Est Actual Disch Temp F 286.35
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 281.7
CAPACITY ACTUAL WET MMSCFD 5.60
CAPACITY ACTUAL DRY MMSCFD 5.55
TOTAL COMPRESSOR POWER HP 393.57

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 220.1 158.9
Capacity Wet/ Cylinder MMSCFD 3.19 2.41
HE Disch. Vol. Eff. % 0.00 31.85
CE Disch. Vol. Eff. % 32.75 31.06
HE Inlet Vol. Eff. % 0.00 72.78
CE Inlet Vol. Eff. % 74.83 70.98
Avg. Inlet Vol. Eff. % 37.42 71.88
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 31075 10867
Internal Gas Load - C LBF -6656 -14273
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 20025
Combined Rod Load - C LBF -19874 -17929
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.730
Adiabatic Disch. Temp. F 255.16
Est Actual Disch Temp F 279.59
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 287.3
CAPACITY ACTUAL WET MMSCFD 5.97
CAPACITY ACTUAL DRY MMSCFD 5.92
TOTAL COMPRESSOR POWER HP 400.86

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 224.2 162.1
Capacity Wet/ Cylinder MMSCFD 3.39 2.57
HE Disch. Vol. Eff. % 0.00 33.66
CE Disch. Vol. Eff. % 34.53 32.89
HE Inlet Vol. Eff. % 0.00 74.27
CE Inlet Vol. Eff. % 76.20 72.58
Avg. Inlet Vol. Eff. % 38.10 73.43
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 30616 10583
Internal Gas Load - C LBF -6715 -14019
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 20288
Combined Rod Load - C LBF -20016 -18283
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.619
Adiabatic Disch. Temp. F 249.38
Est Actual Disch Temp F 273.16
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 292.4
CAPACITY ACTUAL WET MMSCFD 6.34
CAPACITY ACTUAL DRY MMSCFD 6.29
TOTAL COMPRESSOR POWER HP 407.06

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 227.7 164.7
Capacity Wet/ Cylinder MMSCFD 3.60 2.74
HE Disch. Vol. Eff. % 0.00 35.45
CE Disch. Vol. Eff. % 36.30 34.70
HE Inlet Vol. Eff. % 0.00 75.65
CE Inlet Vol. Eff. % 77.47 74.07
Avg. Inlet Vol. Eff. % 38.73 74.86
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 30006 10432
Internal Gas Load - C LBF -6775 -13898
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 20550
Combined Rod Load - C LBF -20317 -18638
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.266
Avg. Vol. Expon. (N)		1.271
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.975
Z Discharge		0.978
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	240.00
Inlet Press. @ Cyl Flg	PSIG	236.34
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	616.90
Disch. Line Pressure	PSIG	610.00
Ratio of Compression		2.516
Adiabatic Disch. Temp.	F	243.85
Est Actual Disch Temp	F	267.04
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	297.2
CAPACITY ACTUAL WET	MMSCFD	6.71
CAPACITY ACTUAL DRY	MMSCFD	6.67
TOTAL COMPRESSOR POWER	HP	412.25

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	230.7	167.0
Capacity Wet/ Cylinder	MMSCFD	3.81	2.90
HE Disch. Vol. Eff.	%	0.00	37.22
CE Disch. Vol. Eff.	%	38.05	36.50
HE Inlet Vol. Eff.	%	0.00	76.94
CE Inlet Vol. Eff.	%	78.65	75.45
Avg. Inlet Vol. Eff.	%	39.32	76.19
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	29291	10151
Internal Gas Load - C	LBF	-6835	-13647
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29978	20813
Combined Rod Load - C	LBF	-20833	-18993
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	95.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
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 0.976
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 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.421
Adiabatic Disch. Temp. F 238.55
Est Actual Disch Temp F 261.19
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 301.6
CAPACITY ACTUAL WET MMSCFD 7.09
CAPACITY ACTUAL DRY MMSCFD 7.04
TOTAL COMPRESSOR POWER HP 416.47

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 233.1 168.8
Capacity Wet/ Cylinder MMSCFD 4.02 3.07
HE Disch. Vol. Eff. % 0.00 38.98
CE Disch. Vol. Eff. % 39.79 38.28
HE Inlet Vol. Eff. % 0.00 78.14
CE Inlet Vol. Eff. % 79.75 76.73
Avg. Inlet Vol. Eff. % 39.87 77.44
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 28903 9936
Internal Gas Load - C LBF -6895 -13494
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 21075
Combined Rod Load - C LBF -20882 -19347
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.272
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.333
Adiabatic Disch. Temp. F 233.45
Est Actual Disch Temp F 255.60
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 305.8
CAPACITY ACTUAL WET MMSCFD 7.46
CAPACITY ACTUAL DRY MMSCFD 7.42
TOTAL COMPRESSOR POWER HP 419.76

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 235.0 170.1
Capacity Wet/ Cylinder MMSCFD 4.22 3.24
HE Disch. Vol. Eff. % 0.00 40.73
CE Disch. Vol. Eff. % 41.51 40.05
HE Inlet Vol. Eff. % 0.00 79.26
CE Inlet Vol. Eff. % 80.77 77.94
Avg. Inlet Vol. Eff. % 40.39 78.60
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 28193 9708
Internal Gas Load - C LBF -6955 -13245
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 21337
Combined Rod Load - C LBF -21048 -19702
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.251
Adiabatic Disch. Temp. F 228.55
Est Actual Disch Temp F 250.24
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 309.7
CAPACITY ACTUAL WET MMSCFD 7.84
CAPACITY ACTUAL DRY MMSCFD 7.79
TOTAL COMPRESSOR POWER HP 422.17

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 236.4 171.1
Capacity Wet/ Cylinder MMSCFD 4.44 3.41
HE Disch. Vol. Eff. % 0.00 42.46
CE Disch. Vol. Eff. % 43.22 41.80
HE Inlet Vol. Eff. % 0.00 80.31
CE Inlet Vol. Eff. % 81.74 79.06
Avg. Inlet Vol. Eff. % 40.87 79.69
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 27486 9431
Internal Gas Load - C LBF -7015 -12998
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 21600
Combined Rod Load - C LBF -21529 -19933
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.174
Adiabatic Disch. Temp. F 223.83
Est Actual Disch Temp F 245.10
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 313.3
CAPACITY ACTUAL WET MMSCFD 8.22
CAPACITY ACTUAL DRY MMSCFD 8.17
TOTAL COMPRESSOR POWER HP 423.75

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 237.4 171.7
Capacity Wet/ Cylinder MMSCFD 4.65 3.57
HE Disch. Vol. Eff. % 0.00 44.18
CE Disch. Vol. Eff. % 44.91 43.54
HE Inlet Vol. Eff. % 0.00 81.30
CE Inlet Vol. Eff. % 82.64 80.12
Avg. Inlet Vol. Eff. % 41.32 80.71
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 27046 9249
Internal Gas Load - C LBF -7074 -12811
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 21862
Combined Rod Load - C LBF -21575 -20274
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 105.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.103
Adiabatic Disch. Temp. F 219.28
Est Actual Disch Temp F 240.15
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 316.8
CAPACITY ACTUAL WET MMSCFD 8.60
CAPACITY ACTUAL DRY MMSCFD 8.55
TOTAL COMPRESSOR POWER HP 424.51

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 237.9 172.0
Capacity Wet/ Cylinder MMSCFD 4.86 3.74
HE Disch. Vol. Eff. % 0.00 45.89
CE Disch. Vol. Eff. % 46.59 45.27
HE Inlet Vol. Eff. % 0.00 82.22
CE Inlet Vol. Eff. % 83.49 81.12
Avg. Inlet Vol. Eff. % 41.75 81.67
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 26344 8973
Internal Gas Load - C LBF -7133 -12566
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 22124
Combined Rod Load - C LBF -21621 -20614
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 120.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 616.90
Disch. Line Pressure PSIG 610.00
Ratio of Compression 2.036
Adiabatic Disch. Temp. F 214.88
Est Actual Disch Temp F 235.38
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 320.0
CAPACITY ACTUAL WET MMSCFD 8.98
CAPACITY ACTUAL DRY MMSCFD 8.94
TOTAL COMPRESSOR POWER HP 424.50

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 238.0 171.9
Capacity Wet/ Cylinder MMSCFD 5.07 3.91
HE Disch. Vol. Eff. % 0.00 47.58
CE Disch. Vol. Eff. % 48.27 46.98
HE Inlet Vol. Eff. % 0.00 83.10
CE Inlet Vol. Eff. % 84.30 82.06
Avg. Inlet Vol. Eff. % 42.15 82.58
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 25643 8698
Internal Gas Load - C LBF -7191 -12321
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 22391
Combined Rod Load - C LBF -22064 -20808
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 130.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 3.032
Adiabatic Disch. Temp. F 269.84
Est Actual Disch Temp F 296.02
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 273.7
CAPACITY ACTUAL WET MMSCFD 5.19
CAPACITY ACTUAL DRY MMSCFD 5.15
TOTAL COMPRESSOR POWER HP 387.99

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 217.1 156.3
Capacity Wet/ Cylinder MMSCFD 2.96 2.23
HE Disch. Vol. Eff. % 0.00 29.42
CE Disch. Vol. Eff. % 30.35 28.60
HE Inlet Vol. Eff. % 0.00 70.59
CE Inlet Vol. Eff. % 72.83 68.64
Avg. Inlet Vol. Eff. % 36.42 69.61
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 32559 11281
Internal Gas Load - C LBF -6682 -14794
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 19559
Combined Rod Load - C LBF -19068 -17467
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.898
Adiabatic Disch. Temp. F 263.49
Est Actual Disch Temp F 288.86
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 279.7
CAPACITY ACTUAL WET MMSCFD 5.56
CAPACITY ACTUAL DRY MMSCFD 5.51
TOTAL COMPRESSOR POWER HP 396.81

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 222.0 160.2
Capacity Wet/ Cylinder MMSCFD 3.16 2.39
HE Disch. Vol. Eff. % 0.00 31.22
CE Disch. Vol. Eff. % 32.13 30.42
HE Inlet Vol. Eff. % 0.00 72.23
CE Inlet Vol. Eff. % 74.34 70.39
Avg. Inlet Vol. Eff. % 37.17 71.31
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 31830 11140
Internal Gas Load - C LBF -6740 -14592
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 19822
Combined Rod Load - C LBF -19693 -17822
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.774
Adiabatic Disch. Temp. F 257.44
Est Actual Disch Temp F 282.07
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 285.3
CAPACITY ACTUAL WET MMSCFD 5.92
CAPACITY ACTUAL DRY MMSCFD 5.88
TOTAL COMPRESSOR POWER HP 404.50

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 226.3 163.5
Capacity Wet/ Cylinder MMSCFD 3.37 2.56
HE Disch. Vol. Eff. % 0.00 33.00
CE Disch. Vol. Eff. % 33.89 32.23
HE Inlet Vol. Eff. % 0.00 73.75
CE Inlet Vol. Eff. % 75.72 72.02
Avg. Inlet Vol. Eff. % 37.86 72.88
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 31106 10856
Internal Gas Load - C LBF -6799 -14337
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 20084
Combined Rod Load - C LBF -20067 -18177
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.661
Adiabatic Disch. Temp. F 251.66
Est Actual Disch Temp F 275.62
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 290.5
CAPACITY ACTUAL WET MMSCFD 6.30
CAPACITY ACTUAL DRY MMSCFD 6.25
TOTAL COMPRESSOR POWER HP 411.10

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 230.1 166.4
Capacity Wet/ Cylinder MMSCFD 3.58 2.72
HE Disch. Vol. Eff. % 0.00 34.77
CE Disch. Vol. Eff. % 35.63 34.02
HE Inlet Vol. Eff. % 0.00 75.15
CE Inlet Vol. Eff. % 77.00 73.52
Avg. Inlet Vol. Eff. % 38.50 74.33
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 30765 10706
Internal Gas Load - C LBF -6859 -14218
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 20347
Combined Rod Load - C LBF -20118 -18532
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.556
Adiabatic Disch. Temp. F 246.12
Est Actual Disch Temp F 269.48
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 295.4
CAPACITY ACTUAL WET MMSCFD 6.67
CAPACITY ACTUAL DRY MMSCFD 6.62
TOTAL COMPRESSOR POWER HP 416.67

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 233.2 168.8
Capacity Wet/ Cylinder MMSCFD 3.78 2.89
HE Disch. Vol. Eff. % 0.00 36.53
CE Disch. Vol. Eff. % 37.36 35.79
HE Inlet Vol. Eff. % 0.00 76.45
CE Inlet Vol. Eff. % 78.20 74.92
Avg. Inlet Vol. Eff. % 39.10 75.68
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 30048 10425
Internal Gas Load - C LBF -6919 -13966
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 20610
Combined Rod Load - C LBF -20811 -18886
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
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 0.977
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 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.460
Adiabatic Disch. Temp. F 240.81
Est Actual Disch Temp F 263.62
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 299.9
CAPACITY ACTUAL WET MMSCFD 7.04
CAPACITY ACTUAL DRY MMSCFD 7.00
TOTAL COMPRESSOR POWER HP 421.28

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 235.9 170.8
Capacity Wet/ Cylinder MMSCFD 3.99 3.05
HE Disch. Vol. Eff. % 0.00 38.26
CE Disch. Vol. Eff. % 39.08 37.55
HE Inlet Vol. Eff. % 0.00 77.66
CE Inlet Vol. Eff. % 79.31 76.22
Avg. Inlet Vol. Eff. % 39.65 76.94
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 29560 10146
Internal Gas Load - C LBF -6979 -13716
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 20872
Combined Rod Load - C LBF -20927 -19241
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.272
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.370
Adiabatic Disch. Temp. F 235.71
Est Actual Disch Temp F 258.02
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 304.1
CAPACITY ACTUAL WET MMSCFD 7.42
CAPACITY ACTUAL DRY MMSCFD 7.37
TOTAL COMPRESSOR POWER HP 424.96

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 238.0 172.3
Capacity Wet/ Cylinder MMSCFD 4.20 3.22
HE Disch. Vol. Eff. % 0.00 39.99
CE Disch. Vol. Eff. % 40.78 39.30
HE Inlet Vol. Eff. % 0.00 78.79
CE Inlet Vol. Eff. % 80.35 77.44
Avg. Inlet Vol. Eff. % 40.17 78.12
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 28953 9983
Internal Gas Load - C LBF -7040 -13565
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 21135
Combined Rod Load - C LBF -20976 -19596
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.287
Adiabatic Disch. Temp. F 230.80
Est Actual Disch Temp F 252.64
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 308.0
CAPACITY ACTUAL WET MMSCFD 7.80
CAPACITY ACTUAL DRY MMSCFD 7.75
TOTAL COMPRESSOR POWER HP 427.75

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 239.7 173.5
Capacity Wet/ Cylinder MMSCFD 4.41 3.39
HE Disch. Vol. Eff. % 0.00 41.70
CE Disch. Vol. Eff. % 42.47 41.03
HE Inlet Vol. Eff. % 0.00 79.86
CE Inlet Vol. Eff. % 81.32 78.58
Avg. Inlet Vol. Eff. % 40.66 79.22
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 28245 9706
Internal Gas Load - C LBF -7100 -13317
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 21401
Combined Rod Load - C LBF -21503 -19907
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.209
Adiabatic Disch. Temp. F 226.08
Est Actual Disch Temp F 247.48
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 311.7
CAPACITY ACTUAL WET MMSCFD 8.18
CAPACITY ACTUAL DRY MMSCFD 8.13
TOTAL COMPRESSOR POWER HP 429.70

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 240.8 174.3
Capacity Wet/ Cylinder MMSCFD 4.62 3.55
HE Disch. Vol. Eff. % 0.00 43.40
CE Disch. Vol. Eff. % 44.14 42.75
HE Inlet Vol. Eff. % 0.00 80.86
CE Inlet Vol. Eff. % 82.24 79.65
Avg. Inlet Vol. Eff. % 41.12 80.25
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 27809 9444
Internal Gas Load - C LBF -7159 -13119
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 21672
Combined Rod Load - C LBF -21614 -20156
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.137
Adiabatic Disch. Temp. F 221.52
Est Actual Disch Temp F 242.52
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 315.2
CAPACITY ACTUAL WET MMSCFD 8.56
CAPACITY ACTUAL DRY MMSCFD 8.51
TOTAL COMPRESSOR POWER HP 430.84

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 241.6 174.7
Capacity Wet/ Cylinder MMSCFD 4.84 3.72
HE Disch. Vol. Eff. % 0.00 45.08
CE Disch. Vol. Eff. % 45.80 44.46
HE Inlet Vol. Eff. % 0.00 81.80
CE Inlet Vol. Eff. % 83.10 80.66
Avg. Inlet Vol. Eff. % 41.55 81.23
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 27105 9248
Internal Gas Load - C LBF -7218 -12885
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 21942
Combined Rod Load - C LBF -21660 -20496
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 105.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 627.01
Disch. Line Pressure PSIG 620.00
Ratio of Compression 2.069
Adiabatic Disch. Temp. F 217.11
Est Actual Disch Temp F 237.74
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 318.5
CAPACITY ACTUAL WET MMSCFD 8.94
CAPACITY ACTUAL DRY MMSCFD 8.89
TOTAL COMPRESSOR POWER HP 431.20

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 241.9 174.7
Capacity Wet/ Cylinder MMSCFD 5.05 3.89
HE Disch. Vol. Eff. % 0.00 46.76
CE Disch. Vol. Eff. % 47.45 46.15
HE Inlet Vol. Eff. % 0.00 82.68
CE Inlet Vol. Eff. % 83.91 81.61
Avg. Inlet Vol. Eff. % 41.96 82.14
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 26404 8973
Internal Gas Load - C LBF -7277 -12640
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 22212
Combined Rod Load - C LBF -21768 -20809
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 120.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 3.080
Adiabatic Disch. Temp. F 272.11
Est Actual Disch Temp F 298.53
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 271.6
CAPACITY ACTUAL WET MMSCFD 5.15
CAPACITY ACTUAL DRY MMSCFD 5.11
TOTAL COMPRESSOR POWER HP 390.69

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 218.7 157.4
Capacity Wet/ Cylinder MMSCFD 2.94 2.21
HE Disch. Vol. Eff. % 0.00 28.82
CE Disch. Vol. Eff. % 29.77 28.00
HE Inlet Vol. Eff. % 0.00 70.03
CE Inlet Vol. Eff. % 72.32 68.03
Avg. Inlet Vol. Eff. % 36.16 69.03
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 32891 11553
Internal Gas Load - C LBF -6766 -15000
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 19356
Combined Rod Load - C LBF -19126 -17361
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

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)		1.262	
Avg. Vol. Expon. (N)		1.268	
Gas Crit. Temperature	F	-96.511	
Gas Crit. Pressure	PSIA	671.383	
Z Standard		0.998	
Z Suction		0.978	
Z Discharge		0.982	
Inlet Temperature	F	120.00	
Inlet Line Pressure	PSIG	210.00	
Inlet Press. @ Cyl Flg	PSIG	206.77	
Interstage Press. Drop	%	0.00	
Disch. Press. @ Cyl Flg	PSIG	637.12	
Disch. Line Pressure	PSIG	630.00	
Ratio of Compression		2.943	
Adiabatic Disch. Temp.	F	265.76	
Est Actual Disch Temp	F	291.34	
Stg. Piston Displ.	CFM	383.0	
Stg. Inlet Capacity	ACFM	277.7	
CAPACITY ACTUAL WET	MMSCFD	5.51	
CAPACITY ACTUAL DRY	MMSCFD	5.47	
TOTAL COMPRESSOR POWER	HP	399.92	

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	223.9	161.4
Capacity Wet/ Cylinder	MMSCFD	3.14	2.37
HE Disch. Vol. Eff.	%	0.00	30.60
CE Disch. Vol. Eff.	%	31.52	29.80
HE Inlet Vol. Eff.	%	0.00	71.69
CE Inlet Vol. Eff.	%	73.84	69.81
Avg. Inlet Vol. Eff.	%	36.92	70.75
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	32585	11414
Internal Gas Load - C	LBF	-6825	-14912
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	30083	19619
Combined Rod Load - C	LBF	-19512	-17716
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	90.0	155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.818
Adiabatic Disch. Temp. F 259.70
Est Actual Disch Temp F 284.53
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 283.4
CAPACITY ACTUAL WET MMSCFD 5.88
CAPACITY ACTUAL DRY MMSCFD 5.84
TOTAL COMPRESSOR POWER HP 407.99

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 228.4 165.0
Capacity Wet/ Cylinder MMSCFD 3.35 2.54
HE Disch. Vol. Eff. % 0.00 32.37
CE Disch. Vol. Eff. % 33.26 31.59
HE Inlet Vol. Eff. % 0.00 73.22
CE Inlet Vol. Eff. % 75.24 71.45
Avg. Inlet Vol. Eff. % 37.62 72.34
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 31860 11129
Internal Gas Load - C LBF -6884 -14656
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 19881
Combined Rod Load - C LBF -20119 -18071
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.703
Adiabatic Disch. Temp. F 253.91
Est Actual Disch Temp F 278.06
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 288.6
CAPACITY ACTUAL WET MMSCFD 6.26
CAPACITY ACTUAL DRY MMSCFD 6.21
TOTAL COMPRESSOR POWER HP 414.99

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 232.4 168.0
Capacity Wet/ Cylinder MMSCFD 3.56 2.70
HE Disch. Vol. Eff. % 0.00 34.12
CE Disch. Vol. Eff. % 34.98 33.36
HE Inlet Vol. Eff. % 0.00 74.64
CE Inlet Vol. Eff. % 76.54 72.98
Avg. Inlet Vol. Eff. % 38.27 73.81
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 31523 10847
Internal Gas Load - C LBF -6943 -14538
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 20144
Combined Rod Load - C LBF -20169 -18426
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.596
Adiabatic Disch. Temp. F 248.36
Est Actual Disch Temp F 271.90
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 293.5
CAPACITY ACTUAL WET MMSCFD 6.63
CAPACITY ACTUAL DRY MMSCFD 6.58
TOTAL COMPRESSOR POWER HP 420.95

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 235.7 170.6
Capacity Wet/ Cylinder MMSCFD 3.76 2.87
HE Disch. Vol. Eff. % 0.00 35.85
CE Disch. Vol. Eff. % 36.69 35.11
HE Inlet Vol. Eff. % 0.00 75.96
CE Inlet Vol. Eff. % 77.75 74.39
Avg. Inlet Vol. Eff. % 38.87 75.17
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 30805 10699
Internal Gas Load - C LBF -7003 -14286
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 20411
Combined Rod Load - C LBF -20596 -18780
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
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 0.977
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 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.498
Adiabatic Disch. Temp. F 243.04
Est Actual Disch Temp F 266.02
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 298.1
CAPACITY ACTUAL WET MMSCFD 7.00
CAPACITY ACTUAL DRY MMSCFD 6.96
TOTAL COMPRESSOR POWER HP 425.94

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 238.6 172.7
Capacity Wet/ Cylinder MMSCFD 3.97 3.03
HE Disch. Vol. Eff. % 0.00 37.57
CE Disch. Vol. Eff. % 38.39 36.85
HE Inlet Vol. Eff. % 0.00 77.18
CE Inlet Vol. Eff. % 78.87 75.71
Avg. Inlet Vol. Eff. % 39.44 76.45
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 30091 10420
Internal Gas Load - C LBF -7063 -14035
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 20681
Combined Rod Load - C LBF -20972 -19135
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.272
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.407
Adiabatic Disch. Temp. F 237.94
Est Actual Disch Temp F 260.40
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 302.3
CAPACITY ACTUAL WET MMSCFD 7.38
CAPACITY ACTUAL DRY MMSCFD 7.33
TOTAL COMPRESSOR POWER HP 429.99

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 240.9 174.4
Capacity Wet/ Cylinder MMSCFD 4.18 3.20
HE Disch. Vol. Eff. % 0.00 39.27
CE Disch. Vol. Eff. % 40.07 38.57
HE Inlet Vol. Eff. % 0.00 78.33
CE Inlet Vol. Eff. % 79.92 76.94
Avg. Inlet Vol. Eff. % 39.96 77.64
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 29713 10258
Internal Gas Load - C LBF -7124 -13885
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 20951
Combined Rod Load - C LBF -21020 -19490
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.323
Adiabatic Disch. Temp. F 233.02
Est Actual Disch Temp F 255.01
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 306.3
CAPACITY ACTUAL WET MMSCFD 7.76
CAPACITY ACTUAL DRY MMSCFD 7.71
TOTAL COMPRESSOR POWER HP 433.16

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 242.8 175.8
Capacity Wet/ Cylinder MMSCFD 4.39 3.37
HE Disch. Vol. Eff. % 0.00 40.96
CE Disch. Vol. Eff. % 41.74 40.28
HE Inlet Vol. Eff. % 0.00 79.41
CE Inlet Vol. Eff. % 80.91 78.09
Avg. Inlet Vol. Eff. % 40.45 78.75
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 29004 9980
Internal Gas Load - C LBF -7184 -13637
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 21222
Combined Rod Load - C LBF -21249 -19845
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.244
Adiabatic Disch. Temp. F 228.29
Est Actual Disch Temp F 249.84
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 310.1
CAPACITY ACTUAL WET MMSCFD 8.13
CAPACITY ACTUAL DRY MMSCFD 8.09
TOTAL COMPRESSOR POWER HP 435.48

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 244.2 176.7
Capacity Wet/ Cylinder MMSCFD 4.60 3.53
HE Disch. Vol. Eff. % 0.00 42.64
CE Disch. Vol. Eff. % 43.39 41.98
HE Inlet Vol. Eff. % 0.00 80.42
CE Inlet Vol. Eff. % 81.83 79.18
Avg. Inlet Vol. Eff. % 40.92 79.80
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 28298 9703
Internal Gas Load - C LBF -7244 -13390
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 21492
Combined Rod Load - C LBF -21652 -20038
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.170
Adiabatic Disch. Temp. F 223.73
Est Actual Disch Temp F 244.86
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 313.6
CAPACITY ACTUAL WET MMSCFD 8.52
CAPACITY ACTUAL DRY MMSCFD 8.47
TOTAL COMPRESSOR POWER HP 436.99

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 245.1 177.3
Capacity Wet/ Cylinder MMSCFD 4.81 3.70
HE Disch. Vol. Eff. % 0.00 44.30
CE Disch. Vol. Eff. % 45.03 43.67
HE Inlet Vol. Eff. % 0.00 81.37
CE Inlet Vol. Eff. % 82.71 80.20
Avg. Inlet Vol. Eff. % 41.35 80.78
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 27867 9524
Internal Gas Load - C LBF -7304 -13205
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 21762
Combined Rod Load - C LBF -21698 -20378
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 637.12
Disch. Line Pressure PSIG 630.00
Ratio of Compression 2.101
Adiabatic Disch. Temp. F 219.32
Est Actual Disch Temp F 240.07
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 316.9
CAPACITY ACTUAL WET MMSCFD 8.90
CAPACITY ACTUAL DRY MMSCFD 8.85
TOTAL COMPRESSOR POWER HP 437.72

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 245.6 177.5
Capacity Wet/ Cylinder MMSCFD 5.03 3.87
HE Disch. Vol. Eff. % 0.00 45.96
CE Disch. Vol. Eff. % 46.66 45.34
HE Inlet Vol. Eff. % 0.00 82.26
CE Inlet Vol. Eff. % 83.53 81.16
Avg. Inlet Vol. Eff. % 41.76 81.71
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 27165 9248
Internal Gas Load - C LBF -7363 -12960
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 22033
Combined Rod Load - C LBF -21745 -20718
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 105.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 3.128
Adiabatic Disch. Temp. F 274.35
Est Actual Disch Temp F 301.01
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 269.5
CAPACITY ACTUAL WET MMSCFD 5.11
CAPACITY ACTUAL DRY MMSCFD 5.07
TOTAL COMPRESSOR POWER HP 393.26

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 220.3 158.4
Capacity Wet/ Cylinder MMSCFD 2.92 2.19
HE Disch. Vol. Eff. % 0.00 28.25
CE Disch. Vol. Eff. % 29.20 27.42
HE Inlet Vol. Eff. % 0.00 69.47
CE Inlet Vol. Eff. % 71.81 67.43
Avg. Inlet Vol. Eff. % 35.90 68.45
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 33641 11825
Internal Gas Load - C LBF -6851 -15318
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 19153
Combined Rod Load - C LBF -19185 -17254
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.989
Adiabatic Disch. Temp. F 267.99
Est Actual Disch Temp F 293.79
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 275.7
CAPACITY ACTUAL WET MMSCFD 5.48
CAPACITY ACTUAL DRY MMSCFD 5.43
TOTAL COMPRESSOR POWER HP 402.89

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 225.7 162.6
Capacity Wet/ Cylinder MMSCFD 3.12 2.35
HE Disch. Vol. Eff. % 0.00 30.01
CE Disch. Vol. Eff. % 30.93 29.20
HE Inlet Vol. Eff. % 0.00 71.15
CE Inlet Vol. Eff. % 73.35 69.23
Avg. Inlet Vol. Eff. % 36.67 70.19
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 33341 11539
Internal Gas Load - C LBF -6909 -15232
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 19419
Combined Rod Load - C LBF -19332 -17609
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

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PACKAGER:
LOCATION:
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DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.861
Adiabatic Disch. Temp. F 261.92
Est Actual Disch Temp F 286.96
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 281.5
CAPACITY ACTUAL WET MMSCFD 5.84
CAPACITY ACTUAL DRY MMSCFD 5.80
TOTAL COMPRESSOR POWER HP 411.36

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 230.4 166.3
Capacity Wet/ Cylinder MMSCFD 3.33 2.52
HE Disch. Vol. Eff. % 0.00 31.75
CE Disch. Vol. Eff. % 32.65 30.96
HE Inlet Vol. Eff. % 0.00 72.70
CE Inlet Vol. Eff. % 74.76 70.89
Avg. Inlet Vol. Eff. % 37.38 71.80
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 32614 11403
Internal Gas Load - C LBF -6968 -14975
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 19690
Combined Rod Load - C LBF -20041 -17964
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.745
Adiabatic Disch. Temp. F 256.12
Est Actual Disch Temp F 280.47
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 286.8
CAPACITY ACTUAL WET MMSCFD 6.21
CAPACITY ACTUAL DRY MMSCFD 6.17
TOTAL COMPRESSOR POWER HP 418.74

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 234.6 169.5
Capacity Wet/ Cylinder MMSCFD 3.53 2.68
HE Disch. Vol. Eff. % 0.00 33.48
CE Disch. Vol. Eff. % 34.36 32.71
HE Inlet Vol. Eff. % 0.00 74.13
CE Inlet Vol. Eff. % 76.08 72.43
Avg. Inlet Vol. Eff. % 38.04 73.28
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 31959 11120
Internal Gas Load - C LBF -7027 -14720
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 19960
Combined Rod Load - C LBF -20221 -18319
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 160.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.637
Adiabatic Disch. Temp. F 250.57
Est Actual Disch Temp F 274.29
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 291.7
CAPACITY ACTUAL WET MMSCFD 6.59
CAPACITY ACTUAL DRY MMSCFD 6.54
TOTAL COMPRESSOR POWER HP 425.08

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 238.2 172.3
Capacity Wet/ Cylinder MMSCFD 3.74 2.85
HE Disch. Vol. Eff. % 0.00 35.19
CE Disch. Vol. Eff. % 36.04 34.44
HE Inlet Vol. Eff. % 0.00 75.47
CE Inlet Vol. Eff. % 77.30 73.87
Avg. Inlet Vol. Eff. % 38.65 74.67
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 31563 10974
Internal Gas Load - C LBF -7087 -14605
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 20231
Combined Rod Load - C LBF -20380 -18674
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
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 0.977
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 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.537
Adiabatic Disch. Temp. F 245.25
Est Actual Disch Temp F 268.39
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 296.3
CAPACITY ACTUAL WET MMSCFD 6.96
CAPACITY ACTUAL DRY MMSCFD 6.92
TOTAL COMPRESSOR POWER HP 430.45

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 241.2 174.6
Capacity Wet/ Cylinder MMSCFD 3.95 3.01
HE Disch. Vol. Eff. % 0.00 36.89
CE Disch. Vol. Eff. % 37.72 36.16
HE Inlet Vol. Eff. % 0.00 76.71
CE Inlet Vol. Eff. % 78.44 75.20
Avg. Inlet Vol. Eff. % 39.22 75.95
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 30847 10693
Internal Gas Load - C LBF -7147 -14354
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 20502
Combined Rod Load - C LBF -21016 -19029
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.272
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.445
Adiabatic Disch. Temp. F 240.14
Est Actual Disch Temp F 262.75
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 300.6
CAPACITY ACTUAL WET MMSCFD 7.34
CAPACITY ACTUAL DRY MMSCFD 7.29
TOTAL COMPRESSOR POWER HP 434.88

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 243.8 176.5
Capacity Wet/ Cylinder MMSCFD 4.16 3.18
HE Disch. Vol. Eff. % 0.00 38.57
CE Disch. Vol. Eff. % 39.38 37.86
HE Inlet Vol. Eff. % 0.00 77.87
CE Inlet Vol. Eff. % 79.50 76.44
Avg. Inlet Vol. Eff. % 39.75 77.16
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 30474 10414
Internal Gas Load - C LBF -7208 -14134
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 20772
Combined Rod Load - C LBF -21065 -19384
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.268
Avg. Vol. Expon. (N)		1.273
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.972
Z Discharge		0.974
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	270.00
Inlet Press. @ Cyl Flg	PSIG	265.91
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	647.23
Disch. Line Pressure	PSIG	640.00
Ratio of Compression		2.359
Adiabatic Disch. Temp.	F	235.22
Est Actual Disch Temp	F	257.35
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	304.7
CAPACITY ACTUAL WET	MMSCFD	7.71
CAPACITY ACTUAL DRY	MMSCFD	7.67
TOTAL COMPRESSOR POWER	HP	438.42

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	245.8	178.0
Capacity Wet/ Cylinder	MMSCFD	4.37	3.35
HE Disch. Vol. Eff.	%	0.00	40.24
CE Disch. Vol. Eff.	%	41.03	39.55
HE Inlet Vol. Eff.	%	0.00	78.96
CE Inlet Vol. Eff.	%	80.50	77.61
Avg. Inlet Vol. Eff.	%	40.25	78.29
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	29764	10255
Internal Gas Load - C	LBF	-7268	-13957
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29874	21042
Combined Rod Load - C	LBF	-21114	-19739
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	95.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.279
Adiabatic Disch. Temp. F 230.48
Est Actual Disch Temp F 252.16
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 308.5
CAPACITY ACTUAL WET MMSCFD 8.09
CAPACITY ACTUAL DRY MMSCFD 8.05
TOTAL COMPRESSOR POWER HP 441.11

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 247.4 179.1
Capacity Wet/ Cylinder MMSCFD 4.58 3.51
HE Disch. Vol. Eff. % 0.00 41.90
CE Disch. Vol. Eff. % 42.66 41.23
HE Inlet Vol. Eff. % 0.00 79.98
CE Inlet Vol. Eff. % 81.43 78.71
Avg. Inlet Vol. Eff. % 40.72 79.34
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 29057 9978
Internal Gas Load - C LBF -7329 -13709
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 21313
Combined Rod Load - C LBF -21690 -20019
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.204
Adiabatic Disch. Temp. F 225.90
Est Actual Disch Temp F 247.17
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 312.0
CAPACITY ACTUAL WET MMSCFD 8.47
CAPACITY ACTUAL DRY MMSCFD 8.43
TOTAL COMPRESSOR POWER HP 442.98

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 248.5 179.8
Capacity Wet/ Cylinder MMSCFD 4.79 3.68
HE Disch. Vol. Eff. % 0.00 43.54
CE Disch. Vol. Eff. % 44.28 42.90
HE Inlet Vol. Eff. % 0.00 80.94
CE Inlet Vol. Eff. % 82.32 79.74
Avg. Inlet Vol. Eff. % 41.16 80.34
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 28629 9771
Internal Gas Load - C LBF -7388 -13525
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 21583
Combined Rod Load - C LBF -21737 -20260
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 647.23
Disch. Line Pressure PSIG 640.00
Ratio of Compression 2.134
Adiabatic Disch. Temp. F 221.49
Est Actual Disch Temp F 242.37
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 315.4
CAPACITY ACTUAL WET MMSCFD 8.85
CAPACITY ACTUAL DRY MMSCFD 8.81
TOTAL COMPRESSOR POWER HP 444.07

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 249.2 180.2
Capacity Wet/ Cylinder MMSCFD 5.00 3.85
HE Disch. Vol. Eff. % 0.00 45.18
CE Disch. Vol. Eff. % 45.89 44.55
HE Inlet Vol. Eff. % 0.00 81.85
CE Inlet Vol. Eff. % 83.15 80.71
Avg. Inlet Vol. Eff. % 41.57 81.28
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 27926 9524
Internal Gas Load - C LBF -7448 -13280
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 21853
Combined Rod Load - C LBF -21783 -20601
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 3.176
Adiabatic Disch. Temp. F 276.56
Est Actual Disch Temp F 303.46
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 267.4
CAPACITY ACTUAL WET MMSCFD 5.07
CAPACITY ACTUAL DRY MMSCFD 5.03
TOTAL COMPRESSOR POWER HP 395.71

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 221.8 159.3
Capacity Wet/ Cylinder MMSCFD 2.90 2.17
HE Disch. Vol. Eff. % 0.00 27.69
CE Disch. Vol. Eff. % 28.65 26.85
HE Inlet Vol. Eff. % 0.00 68.92
CE Inlet Vol. Eff. % 71.30 66.83
Avg. Inlet Vol. Eff. % 35.65 67.87
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 34392 12098
Internal Gas Load - C LBF -6935 -15636
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 18968
Combined Rod Load - C LBF -19126 -17148
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 3.034
Adiabatic Disch. Temp. F 270.19
Est Actual Disch Temp F 296.22
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 273.7
CAPACITY ACTUAL WET MMSCFD 5.44
CAPACITY ACTUAL DRY MMSCFD 5.39
TOTAL COMPRESSOR POWER HP 405.73

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 227.4 163.7
Capacity Wet/ Cylinder MMSCFD 3.10 2.34
HE Disch. Vol. Eff. % 0.00 29.43
CE Disch. Vol. Eff. % 30.36 28.61
HE Inlet Vol. Eff. % 0.00 70.61
CE Inlet Vol. Eff. % 72.85 68.65
Avg. Inlet Vol. Eff. % 36.43 69.63
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 34097 11810
Internal Gas Load - C LBF -6993 -15503
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 19239
Combined Rod Load - C LBF -19295 -17503
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.905
Adiabatic Disch. Temp. F 264.12
Est Actual Disch Temp F 289.36
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 279.5
CAPACITY ACTUAL WET MMSCFD 5.80
CAPACITY ACTUAL DRY MMSCFD 5.76
TOTAL COMPRESSOR POWER HP 414.58

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 232.3 167.6
Capacity Wet/ Cylinder MMSCFD 3.31 2.50
HE Disch. Vol. Eff. % 0.00 31.15
CE Disch. Vol. Eff. % 32.06 30.35
HE Inlet Vol. Eff. % 0.00 72.18
CE Inlet Vol. Eff. % 74.29 70.34
Avg. Inlet Vol. Eff. % 37.14 71.26
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 33368 11676
Internal Gas Load - C LBF -7052 -15294
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 19510
Combined Rod Load - C LBF -19860 -17858
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.786
Adiabatic Disch. Temp. F 258.31
Est Actual Disch Temp F 282.84
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 284.9
CAPACITY ACTUAL WET MMSCFD 6.17
CAPACITY ACTUAL DRY MMSCFD 6.13
TOTAL COMPRESSOR POWER HP 422.35

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 236.7 171.0
Capacity Wet/ Cylinder MMSCFD 3.51 2.66
HE Disch. Vol. Eff. % 0.00 32.86
CE Disch. Vol. Eff. % 33.74 32.08
HE Inlet Vol. Eff. % 0.00 73.63
CE Inlet Vol. Eff. % 75.62 71.89
Avg. Inlet Vol. Eff. % 37.81 72.76
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 32645 11392
Internal Gas Load - C LBF -7111 -15039
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 19781
Combined Rod Load - C LBF -20273 -18213
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.677
Adiabatic Disch. Temp. F 252.76
Est Actual Disch Temp F 276.65
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 289.9
CAPACITY ACTUAL WET MMSCFD 6.55
CAPACITY ACTUAL DRY MMSCFD 6.50
TOTAL COMPRESSOR POWER HP 429.07

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 240.5 173.9
Capacity Wet/ Cylinder MMSCFD 3.72 2.83
HE Disch. Vol. Eff. % 0.00 34.55
CE Disch. Vol. Eff. % 35.41 33.79
HE Inlet Vol. Eff. % 0.00 74.98
CE Inlet Vol. Eff. % 76.85 73.34
Avg. Inlet Vol. Eff. % 38.43 74.16
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 32321 11172
Internal Gas Load - C LBF -7171 -14925
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 20051
Combined Rod Load - C LBF -20323 -18568
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
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 0.977
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 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.576
Adiabatic Disch. Temp. F 247.42
Est Actual Disch Temp F 270.73
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 294.6
CAPACITY ACTUAL WET MMSCFD 6.92
CAPACITY ACTUAL DRY MMSCFD 6.88
TOTAL COMPRESSOR POWER HP 434.81

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 243.8 176.4
Capacity Wet/ Cylinder MMSCFD 3.93 2.99
HE Disch. Vol. Eff. % 0.00 36.23
CE Disch. Vol. Eff. % 37.07 35.49
HE Inlet Vol. Eff. % 0.00 76.24
CE Inlet Vol. Eff. % 78.00 74.69
Avg. Inlet Vol. Eff. % 39.00 75.46
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 31604 10967
Internal Gas Load - C LBF -7231 -14674
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 20322
Combined Rod Load - C LBF -20875 -18923
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.272
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.482
Adiabatic Disch. Temp. F 242.30
Est Actual Disch Temp F 265.08
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 298.9
CAPACITY ACTUAL WET MMSCFD 7.30
CAPACITY ACTUAL DRY MMSCFD 7.25
TOTAL COMPRESSOR POWER HP 439.61

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 246.5 178.5
Capacity Wet/ Cylinder MMSCFD 4.14 3.16
HE Disch. Vol. Eff. % 0.00 37.89
CE Disch. Vol. Eff. % 38.71 37.18
HE Inlet Vol. Eff. % 0.00 77.41
CE Inlet Vol. Eff. % 79.08 75.95
Avg. Inlet Vol. Eff. % 39.54 76.68
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 30891 10688
Internal Gas Load - C LBF -7292 -14423
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 20593
Combined Rod Load - C LBF -21110 -19278
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.395
Adiabatic Disch. Temp. F 237.38
Est Actual Disch Temp F 259.66
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 303.0
CAPACITY ACTUAL WET MMSCFD 7.67
CAPACITY ACTUAL DRY MMSCFD 7.63
TOTAL COMPRESSOR POWER HP 443.52

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 248.8 180.1
Capacity Wet/ Cylinder MMSCFD 4.35 3.33
HE Disch. Vol. Eff. % 0.00 39.54
CE Disch. Vol. Eff. % 40.34 38.85
HE Inlet Vol. Eff. % 0.00 78.51
CE Inlet Vol. Eff. % 80.09 77.13
Avg. Inlet Vol. Eff. % 40.04 77.82
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 30524 10530
Internal Gas Load - C LBF -7352 -14277
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 20863
Combined Rod Load - C LBF -21159 -19633
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.314
Adiabatic Disch. Temp. F 232.63
Est Actual Disch Temp F 254.46
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 306.8
CAPACITY ACTUAL WET MMSCFD 8.05
CAPACITY ACTUAL DRY MMSCFD 8.00
TOTAL COMPRESSOR POWER HP 446.57

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 250.6 181.4
Capacity Wet/ Cylinder MMSCFD 4.56 3.49
HE Disch. Vol. Eff. % 0.00 41.18
CE Disch. Vol. Eff. % 41.95 40.50
HE Inlet Vol. Eff. % 0.00 79.55
CE Inlet Vol. Eff. % 81.04 78.24
Avg. Inlet Vol. Eff. % 40.52 78.89
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 29816 10252
Internal Gas Load - C LBF -7413 -14029
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 21134
Combined Rod Load - C LBF -21452 -19988
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.238
Adiabatic Disch. Temp. F 228.06
Est Actual Disch Temp F 249.46
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 310.5
CAPACITY ACTUAL WET MMSCFD 8.43
CAPACITY ACTUAL DRY MMSCFD 8.38
TOTAL COMPRESSOR POWER HP 448.80

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 251.9 182.3
Capacity Wet/ Cylinder MMSCFD 4.77 3.66
HE Disch. Vol. Eff. % 0.00 42.81
CE Disch. Vol. Eff. % 43.55 42.15
HE Inlet Vol. Eff. % 0.00 80.52
CE Inlet Vol. Eff. % 81.93 79.29
Avg. Inlet Vol. Eff. % 40.96 79.90
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 29110 9976
Internal Gas Load - C LBF -7473 -13782
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 21404
Combined Rod Load - C LBF -21775 -20142
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 657.34
Disch. Line Pressure PSIG 650.00
Ratio of Compression 2.167
Adiabatic Disch. Temp. F 223.64
Est Actual Disch Temp F 244.64
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 313.9
CAPACITY ACTUAL WET MMSCFD 8.81
CAPACITY ACTUAL DRY MMSCFD 8.76
TOTAL COMPRESSOR POWER HP 450.25

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 252.8 182.8
Capacity Wet/ Cylinder MMSCFD 4.98 3.83
HE Disch. Vol. Eff. % 0.00 44.42
CE Disch. Vol. Eff. % 45.15 43.78
HE Inlet Vol. Eff. % 0.00 81.44
CE Inlet Vol. Eff. % 82.77 80.27
Avg. Inlet Vol. Eff. % 41.38 80.85
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 28688 9799
Internal Gas Load - C LBF -7533 -13600
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 21674
Combined Rod Load - C LBF -21822 -20483
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 100.0 165.0

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)		1.261	
Avg. Vol. Expon. (N)		1.267	
Gas Crit. Temperature	F	-96.511	
Gas Crit. Pressure	PSIA	671.383	
Z Standard		0.998	
Z Suction		0.979	
Z Discharge		0.983	
Inlet Temperature	F	120.00	
Inlet Line Pressure	PSIG	200.00	
Inlet Press. @ Cyl Flg	PSIG	196.92	
Interstage Press. Drop	%	0.00	
Disch. Press. @ Cyl Flg	PSIG	667.46	
Disch. Line Pressure	PSIG	660.00	
Ratio of Compression		3.224	
Adiabatic Disch. Temp.	F	278.75	
Est Actual Disch Temp	F	305.89	
Stg. Piston Displ.	CFM	383.0	
Stg. Inlet Capacity	ACFM	265.4	
CAPACITY ACTUAL WET	MMSCFD	5.03	
CAPACITY ACTUAL DRY	MMSCFD	4.99	
TOTAL COMPRESSOR POWER	HP	398.03	

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	223.2	160.2
Capacity Wet/ Cylinder	MMSCFD	2.88	2.15
HE Disch. Vol. Eff.	%	0.00	27.15
CE Disch. Vol. Eff.	%	28.11	26.30
HE Inlet Vol. Eff.	%	0.00	68.36
CE Inlet Vol. Eff.	%	70.79	66.24
Avg. Inlet Vol. Eff.	%	35.40	67.30
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	35143	12370
Internal Gas Load - C	LBF	-7020	-15954
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	30118	18788
Combined Rod Load - C	LBF	-18977	-17041
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	85.0	155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 3.080
Adiabatic Disch. Temp. F 272.37
Est Actual Disch Temp F 298.62
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 271.7
CAPACITY ACTUAL WET MMSCFD 5.40
CAPACITY ACTUAL DRY MMSCFD 5.36
TOTAL COMPRESSOR POWER HP 408.44

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 229.0 164.8
Capacity Wet/ Cylinder MMSCFD 3.08 2.32
HE Disch. Vol. Eff. % 0.00 28.86
CE Disch. Vol. Eff. % 29.80 28.04
HE Inlet Vol. Eff. % 0.00 70.08
CE Inlet Vol. Eff. % 72.36 68.08
Avg. Inlet Vol. Eff. % 36.18 69.08
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 34410 12082
Internal Gas Load - C LBF -7077 -15694
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 19059
Combined Rod Load - C LBF -19353 -17397
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.949
Adiabatic Disch. Temp. F 266.29
Est Actual Disch Temp F 291.73
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 277.6
CAPACITY ACTUAL WET MMSCFD 5.76
CAPACITY ACTUAL DRY MMSCFD 5.72
TOTAL COMPRESSOR POWER HP 417.68

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 234.2 168.9
Capacity Wet/ Cylinder MMSCFD 3.29 2.48
HE Disch. Vol. Eff. % 0.00 30.57
CE Disch. Vol. Eff. % 31.48 29.76
HE Inlet Vol. Eff. % 0.00 71.66
CE Inlet Vol. Eff. % 73.82 69.78
Avg. Inlet Vol. Eff. % 36.91 70.72
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 34123 11950
Internal Gas Load - C LBF -7136 -15613
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 19330
Combined Rod Load - C LBF -19680 -17752
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.828
Adiabatic Disch. Temp. F 260.47
Est Actual Disch Temp F 285.20
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 283.1
CAPACITY ACTUAL WET MMSCFD 6.13
CAPACITY ACTUAL DRY MMSCFD 6.09
TOTAL COMPRESSOR POWER HP 425.82

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 238.8 172.4
Capacity Wet/ Cylinder MMSCFD 3.49 2.64
HE Disch. Vol. Eff. % 0.00 32.25
CE Disch. Vol. Eff. % 33.15 31.47
HE Inlet Vol. Eff. % 0.00 73.13
CE Inlet Vol. Eff. % 75.16 71.36
Avg. Inlet Vol. Eff. % 37.58 72.24
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 33399 11665
Internal Gas Load - C LBF -7195 -15357
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 19601
Combined Rod Load - C LBF -20324 -18107
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.717
Adiabatic Disch. Temp. F 254.91
Est Actual Disch Temp F 278.98
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 288.1
CAPACITY ACTUAL WET MMSCFD 6.51
CAPACITY ACTUAL DRY MMSCFD 6.46
TOTAL COMPRESSOR POWER HP 432.92

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 242.8 175.5
Capacity Wet/ Cylinder MMSCFD 3.70 2.81
HE Disch. Vol. Eff. % 0.00 33.93
CE Disch. Vol. Eff. % 34.80 33.16
HE Inlet Vol. Eff. % 0.00 74.50
CE Inlet Vol. Eff. % 76.41 72.82
Avg. Inlet Vol. Eff. % 38.20 73.66
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 33079 11383
Internal Gas Load - C LBF -7255 -15172
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 19872
Combined Rod Load - C LBF -20375 -18462
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
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 0.977
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 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.615
Adiabatic Disch. Temp. F 249.57
Est Actual Disch Temp F 273.05
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 292.8
CAPACITY ACTUAL WET MMSCFD 6.88
CAPACITY ACTUAL DRY MMSCFD 6.83
TOTAL COMPRESSOR POWER HP 439.03

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 246.2 178.2
Capacity Wet/ Cylinder MMSCFD 3.91 2.97
HE Disch. Vol. Eff. % 0.00 35.58
CE Disch. Vol. Eff. % 36.43 34.84
HE Inlet Vol. Eff. % 0.00 75.77
CE Inlet Vol. Eff. % 77.57 74.19
Avg. Inlet Vol. Eff. % 38.79 74.98
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 32361 11241
Internal Gas Load - C LBF -7315 -14993
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 20142
Combined Rod Load - C LBF -20660 -18817
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.519
Adiabatic Disch. Temp. F 244.44
Est Actual Disch Temp F 267.37
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 297.2
CAPACITY ACTUAL WET MMSCFD 7.25
CAPACITY ACTUAL DRY MMSCFD 7.21
TOTAL COMPRESSOR POWER HP 444.20

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 249.2 180.4
Capacity Wet/ Cylinder MMSCFD 4.11 3.14
HE Disch. Vol. Eff. % 0.00 37.23
CE Disch. Vol. Eff. % 38.05 36.51
HE Inlet Vol. Eff. % 0.00 76.95
CE Inlet Vol. Eff. % 78.66 75.46
Avg. Inlet Vol. Eff. % 39.33 76.21
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 31647 10961
Internal Gas Load - C LBF -7376 -14742
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 20413
Combined Rod Load - C LBF -21155 -19172
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.431
Adiabatic Disch. Temp. F 239.51
Est Actual Disch Temp F 261.94
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 301.4
CAPACITY ACTUAL WET MMSCFD 7.63
CAPACITY ACTUAL DRY MMSCFD 7.58
TOTAL COMPRESSOR POWER HP 448.47

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 251.6 182.2
Capacity Wet/ Cylinder MMSCFD 4.32 3.31
HE Disch. Vol. Eff. % 0.00 38.86
CE Disch. Vol. Eff. % 39.66 38.16
HE Inlet Vol. Eff. % 0.00 78.07
CE Inlet Vol. Eff. % 79.68 76.66
Avg. Inlet Vol. Eff. % 39.84 77.36
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 31284 10704
Internal Gas Load - C LBF -7437 -14597
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 20684
Combined Rod Load - C LBF -21204 -19527
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.348
Adiabatic Disch. Temp. F 234.76
Est Actual Disch Temp F 256.73
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 305.2
CAPACITY ACTUAL WET MMSCFD 8.01
CAPACITY ACTUAL DRY MMSCFD 7.96
TOTAL COMPRESSOR POWER HP 451.88

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 253.6 183.6
Capacity Wet/ Cylinder MMSCFD 4.53 3.47
HE Disch. Vol. Eff. % 0.00 40.48
CE Disch. Vol. Eff. % 41.26 39.80
HE Inlet Vol. Eff. % 0.00 79.11
CE Inlet Vol. Eff. % 80.64 77.78
Avg. Inlet Vol. Eff. % 40.32 78.44
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 30575 10527
Internal Gas Load - C LBF -7497 -14349
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 20954
Combined Rod Load - C LBF -21253 -19882
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

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PACKAGER:
LOCATION:
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DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.271
Adiabatic Disch. Temp. F 230.18
Est Actual Disch Temp F 251.71
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 308.9
CAPACITY ACTUAL WET MMSCFD 8.39
CAPACITY ACTUAL DRY MMSCFD 8.34
TOTAL COMPRESSOR POWER HP 454.47

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 255.2 184.7
Capacity Wet/ Cylinder MMSCFD 4.75 3.64
HE Disch. Vol. Eff. % 0.00 42.09
CE Disch. Vol. Eff. % 42.85 41.42
HE Inlet Vol. Eff. % 0.00 80.10
CE Inlet Vol. Eff. % 81.54 78.83
Avg. Inlet Vol. Eff. % 40.77 79.46
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 29868 10250
Internal Gas Load - C LBF -7558 -14102
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 21225
Combined Rod Load - C LBF -21814 -20131
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 667.46
Disch. Line Pressure PSIG 660.00
Ratio of Compression 2.199
Adiabatic Disch. Temp. F 225.75
Est Actual Disch Temp F 246.89
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 312.3
CAPACITY ACTUAL WET MMSCFD 8.77
CAPACITY ACTUAL DRY MMSCFD 8.72
TOTAL COMPRESSOR POWER HP 456.27

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 256.3 185.4
Capacity Wet/ Cylinder MMSCFD 4.96 3.81
HE Disch. Vol. Eff. % 0.00 43.68
CE Disch. Vol. Eff. % 44.42 43.04
HE Inlet Vol. Eff. % 0.00 81.02
CE Inlet Vol. Eff. % 82.39 79.83
Avg. Inlet Vol. Eff. % 41.20 80.43
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 29450 10075
Internal Gas Load - C LBF -7618 -13919
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 21495
Combined Rod Load - C LBF -21860 -20365
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 3.271
Adiabatic Disch. Temp. F 280.90
Est Actual Disch Temp F 308.29
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 263.3
CAPACITY ACTUAL WET MMSCFD 4.99
CAPACITY ACTUAL DRY MMSCFD 4.95
TOTAL COMPRESSOR POWER HP 400.24

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 224.6 161.1
Capacity Wet/ Cylinder MMSCFD 2.86 2.14
HE Disch. Vol. Eff. % 0.00 26.62
CE Disch. Vol. Eff. % 27.59 25.77
HE Inlet Vol. Eff. % 0.00 67.81
CE Inlet Vol. Eff. % 70.29 65.64
Avg. Inlet Vol. Eff. % 35.14 66.73
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 35894 12643
Internal Gas Load - C LBF -7104 -16273
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 18608
Combined Rod Load - C LBF -18827 -16935
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 3.126
Adiabatic Disch. Temp. F 274.51
Est Actual Disch Temp F 300.99
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 269.8
CAPACITY ACTUAL WET MMSCFD 5.36
CAPACITY ACTUAL DRY MMSCFD 5.32
TOTAL COMPRESSOR POWER HP 411.03

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 230.6 165.8
Capacity Wet/ Cylinder MMSCFD 3.06 2.30
HE Disch. Vol. Eff. % 0.00 28.31
CE Disch. Vol. Eff. % 29.26 27.48
HE Inlet Vol. Eff. % 0.00 69.55
CE Inlet Vol. Eff. % 71.88 67.51
Avg. Inlet Vol. Eff. % 35.94 68.53
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 35160 12354
Internal Gas Load - C LBF -7161 -16011
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 18879
Combined Rod Load - C LBF -19411 -17290
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.993
Adiabatic Disch. Temp. F 268.43
Est Actual Disch Temp F 294.08
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 275.7
CAPACITY ACTUAL WET MMSCFD 5.73
CAPACITY ACTUAL DRY MMSCFD 5.68
TOTAL COMPRESSOR POWER HP 420.65

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 236.0 170.1
Capacity Wet/ Cylinder MMSCFD 3.26 2.46
HE Disch. Vol. Eff. % 0.00 30.00
CE Disch. Vol. Eff. % 30.92 29.19
HE Inlet Vol. Eff. % 0.00 71.15
CE Inlet Vol. Eff. % 73.34 69.23
Avg. Inlet Vol. Eff. % 36.67 70.19
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 34879 12068
Internal Gas Load - C LBF -7220 -15933
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 19150
Combined Rod Load - C LBF -19499 -17646
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.870
Adiabatic Disch. Temp. F 262.61
Est Actual Disch Temp F 287.53
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 281.2
CAPACITY ACTUAL WET MMSCFD 6.09
CAPACITY ACTUAL DRY MMSCFD 6.05
TOTAL COMPRESSOR POWER HP 429.17

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 240.8 173.8
Capacity Wet/ Cylinder MMSCFD 3.47 2.62
HE Disch. Vol. Eff. % 0.00 31.67
CE Disch. Vol. Eff. % 32.57 30.88
HE Inlet Vol. Eff. % 0.00 72.63
CE Inlet Vol. Eff. % 74.70 70.82
Avg. Inlet Vol. Eff. % 37.35 71.73
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 34152 11939
Internal Gas Load - C LBF -7279 -15676
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 19421
Combined Rod Load - C LBF -20209 -18001
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.758
Adiabatic Disch. Temp. F 257.04
Est Actual Disch Temp F 281.29
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 286.3
CAPACITY ACTUAL WET MMSCFD 6.46
CAPACITY ACTUAL DRY MMSCFD 6.42
TOTAL COMPRESSOR POWER HP 436.64

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 245.0 177.0
Capacity Wet/ Cylinder MMSCFD 3.68 2.79
HE Disch. Vol. Eff. % 0.00 33.32
CE Disch. Vol. Eff. % 34.20 32.55
HE Inlet Vol. Eff. % 0.00 74.01
CE Inlet Vol. Eff. % 75.97 72.30
Avg. Inlet Vol. Eff. % 37.98 73.16
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 33431 11656
Internal Gas Load - C LBF -7339 -15422
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 19692
Combined Rod Load - C LBF -20426 -18356
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 0.977
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 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.653
Adiabatic Disch. Temp. F 251.69
Est Actual Disch Temp F 275.34
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 291.1
CAPACITY ACTUAL WET MMSCFD 6.84
CAPACITY ACTUAL DRY MMSCFD 6.79
TOTAL COMPRESSOR POWER HP 443.11

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 248.6 179.9
Capacity Wet/ Cylinder MMSCFD 3.88 2.95
HE Disch. Vol. Eff. % 0.00 34.96
CE Disch. Vol. Eff. % 35.82 34.21
HE Inlet Vol. Eff. % 0.00 75.30
CE Inlet Vol. Eff. % 77.14 73.68
Avg. Inlet Vol. Eff. % 38.57 74.49
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 33119 11515
Internal Gas Load - C LBF -7399 -15313
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 19963
Combined Rod Load - C LBF -20477 -18711
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.557
Adiabatic Disch. Temp. F 246.56
Est Actual Disch Temp F 269.65
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 295.5
CAPACITY ACTUAL WET MMSCFD 7.21
CAPACITY ACTUAL DRY MMSCFD 7.17
TOTAL COMPRESSOR POWER HP 448.64

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 251.8 182.2
Capacity Wet/ Cylinder MMSCFD 4.09 3.12
HE Disch. Vol. Eff. % 0.00 36.58
CE Disch. Vol. Eff. % 37.42 35.85
HE Inlet Vol. Eff. % 0.00 76.50
CE Inlet Vol. Eff. % 78.24 74.97
Avg. Inlet Vol. Eff. % 39.12 75.74
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 32403 11235
Internal Gas Load - C LBF -7460 -15062
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 20234
Combined Rod Load - C LBF -21155 -19066
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.467
Adiabatic Disch. Temp. F 241.62
Est Actual Disch Temp F 264.20
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 299.7
CAPACITY ACTUAL WET MMSCFD 7.59
CAPACITY ACTUAL DRY MMSCFD 7.54
TOTAL COMPRESSOR POWER HP 453.27

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 254.4 184.2
Capacity Wet/ Cylinder MMSCFD 4.30 3.29
HE Disch. Vol. Eff. % 0.00 38.20
CE Disch. Vol. Eff. % 39.01 37.49
HE Inlet Vol. Eff. % 0.00 77.62
CE Inlet Vol. Eff. % 79.28 76.18
Avg. Inlet Vol. Eff. % 39.64 76.90
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 31866 10956
Internal Gas Load - C LBF -7521 -14812
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 20504
Combined Rod Load - C LBF -21249 -19421
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.383
Adiabatic Disch. Temp. F 236.86
Est Actual Disch Temp F 258.97
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 303.6
CAPACITY ACTUAL WET MMSCFD 7.97
CAPACITY ACTUAL DRY MMSCFD 7.92
TOTAL COMPRESSOR POWER HP 457.03

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 256.6 185.8
Capacity Wet/ Cylinder MMSCFD 4.51 3.45
HE Disch. Vol. Eff. % 0.00 39.80
CE Disch. Vol. Eff. % 40.59 39.11
HE Inlet Vol. Eff. % 0.00 78.68
CE Inlet Vol. Eff. % 80.24 77.31
Avg. Inlet Vol. Eff. % 40.12 78.00
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 31335 10802
Internal Gas Load - C LBF -7581 -14669
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 20775
Combined Rod Load - C LBF -21298 -19776
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.305
Adiabatic Disch. Temp. F 232.27
Est Actual Disch Temp F 253.94
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 307.3
CAPACITY ACTUAL WET MMSCFD 8.35
CAPACITY ACTUAL DRY MMSCFD 8.30
TOTAL COMPRESSOR POWER HP 459.97

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 258.3 187.0
Capacity Wet/ Cylinder MMSCFD 4.72 3.62
HE Disch. Vol. Eff. % 0.00 41.39
CE Disch. Vol. Eff. % 42.16 40.71
HE Inlet Vol. Eff. % 0.00 79.68
CE Inlet Vol. Eff. % 81.16 78.38
Avg. Inlet Vol. Eff. % 40.58 79.03
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 30627 10525
Internal Gas Load - C LBF -7642 -14421
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 21046
Combined Rod Load - C LBF -21655 -20131
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.971
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 677.57
Disch. Line Pressure PSIG 670.00
Ratio of Compression 2.232
Adiabatic Disch. Temp. F 227.84
Est Actual Disch Temp F 249.11
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 310.8
CAPACITY ACTUAL WET MMSCFD 8.73
CAPACITY ACTUAL DRY MMSCFD 8.68
TOTAL COMPRESSOR POWER HP 462.13

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 259.6 187.9
Capacity Wet/ Cylinder MMSCFD 4.93 3.79
HE Disch. Vol. Eff. % 0.00 42.96
CE Disch. Vol. Eff. % 43.71 42.31
HE Inlet Vol. Eff. % 0.00 80.61
CE Inlet Vol. Eff. % 82.02 79.39
Avg. Inlet Vol. Eff. % 41.01 80.00
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 30077 10248
Internal Gas Load - C LBF -7702 -14175
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 21316
Combined Rod Load - C LBF -21899 -20247
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 3.319
Adiabatic Disch. Temp. F 283.03
Est Actual Disch Temp F 310.67
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 261.3
CAPACITY ACTUAL WET MMSCFD 4.95
CAPACITY ACTUAL DRY MMSCFD 4.91
TOTAL COMPRESSOR POWER HP 402.32

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 225.9 161.9
Capacity Wet/ Cylinder MMSCFD 2.84 2.12
HE Disch. Vol. Eff. % 0.00 26.10
CE Disch. Vol. Eff. % 27.08 25.24
HE Inlet Vol. Eff. % 0.00 67.26
CE Inlet Vol. Eff. % 69.78 65.05
Avg. Inlet Vol. Eff. % 34.89 66.15
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 36647 12749
Internal Gas Load - C LBF -7189 -16592
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 18428
Combined Rod Load - C LBF -18678 -16829
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 3.171
Adiabatic Disch. Temp. F 276.63
Est Actual Disch Temp F 303.34
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 267.8
CAPACITY ACTUAL WET MMSCFD 5.32
CAPACITY ACTUAL DRY MMSCFD 5.28
TOTAL COMPRESSOR POWER HP 413.50

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 232.1 166.8
Capacity Wet/ Cylinder MMSCFD 3.04 2.28
HE Disch. Vol. Eff. % 0.00 27.78
CE Disch. Vol. Eff. % 28.74 26.94
HE Inlet Vol. Eff. % 0.00 69.01
CE Inlet Vol. Eff. % 71.39 66.94
Avg. Inlet Vol. Eff. % 35.69 67.98
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 35910 12627
Internal Gas Load - C LBF -7246 -16329
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 18699
Combined Rod Load - C LBF -19386 -17184
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 3.036
Adiabatic Disch. Temp. F 270.54
Est Actual Disch Temp F 296.41
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 273.8
CAPACITY ACTUAL WET MMSCFD 5.69
CAPACITY ACTUAL DRY MMSCFD 5.64
TOTAL COMPRESSOR POWER HP 423.50

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 237.7 171.2
Capacity Wet/ Cylinder MMSCFD 3.24 2.44
HE Disch. Vol. Eff. % 0.00 29.44
CE Disch. Vol. Eff. % 30.38 28.63
HE Inlet Vol. Eff. % 0.00 70.64
CE Inlet Vol. Eff. % 72.87 68.68
Avg. Inlet Vol. Eff. % 36.44 69.66
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 35635 12340
Internal Gas Load - C LBF -7304 -16214
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 18970
Combined Rod Load - C LBF -19521 -17539
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 155.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.912
Adiabatic Disch. Temp. F 264.71
Est Actual Disch Temp F 289.83
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 279.4
CAPACITY ACTUAL WET MMSCFD 6.06
CAPACITY ACTUAL DRY MMSCFD 6.01
TOTAL COMPRESSOR POWER HP 432.38

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 242.7 175.1
Capacity Wet/ Cylinder MMSCFD 3.45 2.61
HE Disch. Vol. Eff. % 0.00 31.09
CE Disch. Vol. Eff. % 32.00 30.30
HE Inlet Vol. Eff. % 0.00 72.14
CE Inlet Vol. Eff. % 74.25 70.29
Avg. Inlet Vol. Eff. % 37.12 71.21
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 34907 12212
Internal Gas Load - C LBF -7363 -15995
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 19242
Combined Rod Load - C LBF -20028 -17895
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.798
Adiabatic Disch. Temp. F 259.13
Est Actual Disch Temp F 283.57
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 284.5
CAPACITY ACTUAL WET MMSCFD 6.42
CAPACITY ACTUAL DRY MMSCFD 6.38
TOTAL COMPRESSOR POWER HP 440.22

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 247.1 178.5
Capacity Wet/ Cylinder MMSCFD 3.66 2.77
HE Disch. Vol. Eff. % 0.00 32.73
CE Disch. Vol. Eff. % 33.62 31.95
HE Inlet Vol. Eff. % 0.00 73.53
CE Inlet Vol. Eff. % 75.53 71.79
Avg. Inlet Vol. Eff. % 37.76 72.66
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 34184 11928
Internal Gas Load - C LBF -7423 -15740
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 19513
Combined Rod Load - C LBF -20478 -18250
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 0.978
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 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.692
Adiabatic Disch. Temp. F 253.78
Est Actual Disch Temp F 277.60
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 289.4
CAPACITY ACTUAL WET MMSCFD 6.80
CAPACITY ACTUAL DRY MMSCFD 6.75
TOTAL COMPRESSOR POWER HP 447.06

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 251.0 181.5
Capacity Wet/ Cylinder MMSCFD 3.86 2.94
HE Disch. Vol. Eff. % 0.00 34.35
CE Disch. Vol. Eff. % 35.21 33.59
HE Inlet Vol. Eff. % 0.00 74.83
CE Inlet Vol. Eff. % 76.72 73.18
Avg. Inlet Vol. Eff. % 38.36 74.01
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 33877 11647
Internal Gas Load - C LBF -7483 -15633
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 19783
Combined Rod Load - C LBF -20529 -18605
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.594
Adiabatic Disch. Temp. F 248.65
Est Actual Disch Temp F 271.89
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 293.9
CAPACITY ACTUAL WET MMSCFD 7.17
CAPACITY ACTUAL DRY MMSCFD 7.13
TOTAL COMPRESSOR POWER HP 452.94

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 254.3 184.0
Capacity Wet/ Cylinder MMSCFD 4.07 3.10
HE Disch. Vol. Eff. % 0.00 35.96
CE Disch. Vol. Eff. % 36.80 35.22
HE Inlet Vol. Eff. % 0.00 76.05
CE Inlet Vol. Eff. % 77.83 74.48
Avg. Inlet Vol. Eff. % 38.91 75.27
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 33160 11509
Internal Gas Load - C LBF -7544 -15381
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 20054
Combined Rod Load - C LBF -20940 -18960
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.503
Adiabatic Disch. Temp. F 243.70
Est Actual Disch Temp F 266.43
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 298.1
CAPACITY ACTUAL WET MMSCFD 7.55
CAPACITY ACTUAL DRY MMSCFD 7.50
TOTAL COMPRESSOR POWER HP 457.93

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 257.2 186.2
Capacity Wet/ Cylinder MMSCFD 4.28 3.27
HE Disch. Vol. Eff. % 0.00 37.55
CE Disch. Vol. Eff. % 38.37 36.83
HE Inlet Vol. Eff. % 0.00 77.18
CE Inlet Vol. Eff. % 78.87 75.71
Avg. Inlet Vol. Eff. % 39.44 76.44
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 32447 11230
Internal Gas Load - C LBF -7605 -15131
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 20325
Combined Rod Load - C LBF -21294 -19316
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.418
Adiabatic Disch. Temp. F 238.94
Est Actual Disch Temp F 261.19
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 302.0
CAPACITY ACTUAL WET MMSCFD 7.92
CAPACITY ACTUAL DRY MMSCFD 7.88
TOTAL COMPRESSOR POWER HP 462.04

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 259.5 187.9
Capacity Wet/ Cylinder MMSCFD 4.49 3.43
HE Disch. Vol. Eff. % 0.00 39.13
CE Disch. Vol. Eff. % 39.93 38.43
HE Inlet Vol. Eff. % 0.00 78.25
CE Inlet Vol. Eff. % 79.85 76.85
Avg. Inlet Vol. Eff. % 39.93 77.55
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 32095 11077
Internal Gas Load - C LBF -7665 -14989
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 20596
Combined Rod Load - C LBF -21343 -19671
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.339
Adiabatic Disch. Temp. F 234.35
Est Actual Disch Temp F 256.15
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 305.8
CAPACITY ACTUAL WET MMSCFD 8.30
CAPACITY ACTUAL DRY MMSCFD 8.26
TOTAL COMPRESSOR POWER HP 465.33

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 261.4 189.3
Capacity Wet/ Cylinder MMSCFD 4.70 3.60
HE Disch. Vol. Eff. % 0.00 40.71
CE Disch. Vol. Eff. % 41.48 40.02
HE Inlet Vol. Eff. % 0.00 79.26
CE Inlet Vol. Eff. % 80.77 77.93
Avg. Inlet Vol. Eff. % 40.39 78.59
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 31386 10799
Internal Gas Load - C LBF -7726 -14741
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 20866
Combined Rod Load - C LBF -21401 -20026
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.270
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 687.68
Disch. Line Pressure PSIG 680.00
Ratio of Compression 2.264
Adiabatic Disch. Temp. F 229.91
Est Actual Disch Temp F 251.30
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 309.3
CAPACITY ACTUAL WET MMSCFD 8.68
CAPACITY ACTUAL DRY MMSCFD 8.64
TOTAL COMPRESSOR POWER HP 467.83

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 262.9 190.3
Capacity Wet/ Cylinder MMSCFD 4.91 3.77
HE Disch. Vol. Eff. % 0.00 42.27
CE Disch. Vol. Eff. % 43.02 41.60
HE Inlet Vol. Eff. % 0.00 80.21
CE Inlet Vol. Eff. % 81.64 78.95
Avg. Inlet Vol. Eff. % 40.82 79.58
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 30680 10522
Internal Gas Load - C LBF -7787 -14494
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 21137
Combined Rod Load - C LBF -21937 -20243
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 3.367
Adiabatic Disch. Temp. F 285.13
Est Actual Disch Temp F 313.03
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 259.2
CAPACITY ACTUAL WET MMSCFD 4.91
CAPACITY ACTUAL DRY MMSCFD 4.87
TOTAL COMPRESSOR POWER HP 404.30

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 227.1 162.6
Capacity Wet/ Cylinder MMSCFD 2.81 2.10
HE Disch. Vol. Eff. % 0.00 25.60
CE Disch. Vol. Eff. % 26.58 24.73
HE Inlet Vol. Eff. % 0.00 66.71
CE Inlet Vol. Eff. % 69.28 64.46
Avg. Inlet Vol. Eff. % 34.64 65.59
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 37399 13019
Internal Gas Load - C LBF -7274 -16911
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 18248
Combined Rod Load - C LBF -18528 -16722
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 3.217
Adiabatic Disch. Temp. F 278.73
Est Actual Disch Temp F 305.67
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 265.8
CAPACITY ACTUAL WET MMSCFD 5.28
CAPACITY ACTUAL DRY MMSCFD 5.24
TOTAL COMPRESSOR POWER HP 415.85

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 233.5 167.7
Capacity Wet/ Cylinder MMSCFD 3.02 2.26
HE Disch. Vol. Eff. % 0.00 27.26
CE Disch. Vol. Eff. % 28.22 26.42
HE Inlet Vol. Eff. % 0.00 68.49
CE Inlet Vol. Eff. % 70.91 66.37
Avg. Inlet Vol. Eff. % 35.45 67.43
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 36661 12899
Internal Gas Load - C LBF -7330 -16647
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 18520
Combined Rod Load - C LBF -19237 -17078
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 3.080
Adiabatic Disch. Temp. F 272.62
Est Actual Disch Temp F 298.71
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 271.9
CAPACITY ACTUAL WET MMSCFD 5.65
CAPACITY ACTUAL DRY MMSCFD 5.60
TOTAL COMPRESSOR POWER HP 426.22

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 239.3 172.3
Capacity Wet/ Cylinder MMSCFD 3.22 2.42
HE Disch. Vol. Eff. % 0.00 28.90
CE Disch. Vol. Eff. % 29.84 28.08
HE Inlet Vol. Eff. % 0.00 70.12
CE Inlet Vol. Eff. % 72.41 68.13
Avg. Inlet Vol. Eff. % 36.20 69.13
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 35928 12612
Internal Gas Load - C LBF -7388 -16387
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 18791
Combined Rod Load - C LBF -19580 -17433
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.263
Avg. Vol. Expon. (N)		1.270
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.976
Z Discharge		0.980
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	230.00
Inlet Press. @ Cyl Flg	PSIG	226.49
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	697.79
Disch. Line Pressure	PSIG	690.00
Ratio of Compression		2.954
Adiabatic Disch. Temp.	F	266.79
Est Actual Disch Temp	F	292.11
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	277.5
CAPACITY ACTUAL WET	MMSCFD	6.01
CAPACITY ACTUAL DRY	MMSCFD	5.97
TOTAL COMPRESSOR POWER	HP	435.48

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	244.5	176.3
Capacity Wet/ Cylinder	MMSCFD	3.43	2.59
HE Disch. Vol. Eff.	%	0.00	30.54
CE Disch. Vol. Eff.	%	31.45	29.73
HE Inlet Vol. Eff.	%	0.00	71.64
CE Inlet Vol. Eff.	%	73.80	69.76
Avg. Inlet Vol. Eff.	%	36.90	70.70
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	35662	12485
Internal Gas Load - C	LBF	-7447	-16314
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	30013	19062
Combined Rod Load - C	LBF	-19848	-17789
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	85.0	160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 2.838
Adiabatic Disch. Temp. F 261.21
Est Actual Disch Temp F 285.83
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 282.8
CAPACITY ACTUAL WET MMSCFD 6.39
CAPACITY ACTUAL DRY MMSCFD 6.34
TOTAL COMPRESSOR POWER HP 443.68

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 249.1 179.9
Capacity Wet/ Cylinder MMSCFD 3.63 2.75
HE Disch. Vol. Eff. % 0.00 32.15
CE Disch. Vol. Eff. % 33.05 31.37
HE Inlet Vol. Eff. % 0.00 73.05
CE Inlet Vol. Eff. % 75.09 71.27
Avg. Inlet Vol. Eff. % 37.54 72.16
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 34937 12201
Internal Gas Load - C LBF -7507 -16059
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 19333
Combined Rod Load - C LBF -20529 -18144
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 0.978
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 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 2.731
Adiabatic Disch. Temp. F 255.85
Est Actual Disch Temp F 279.84
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 287.6
CAPACITY ACTUAL WET MMSCFD 6.76
CAPACITY ACTUAL DRY MMSCFD 6.71
TOTAL COMPRESSOR POWER HP 450.87

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 253.2 183.0
Capacity Wet/ Cylinder MMSCFD 3.84 2.92
HE Disch. Vol. Eff. % 0.00 33.75
CE Disch. Vol. Eff. % 34.63 32.99
HE Inlet Vol. Eff. % 0.00 74.37
CE Inlet Vol. Eff. % 76.29 72.68
Avg. Inlet Vol. Eff. % 38.15 73.52
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 34635 11919
Internal Gas Load - C LBF -7567 -15805
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 19604
Combined Rod Load - C LBF -20580 -18499
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 2.632
Adiabatic Disch. Temp. F 250.71
Est Actual Disch Temp F 274.12
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 292.2
CAPACITY ACTUAL WET MMSCFD 7.13
CAPACITY ACTUAL DRY MMSCFD 7.09
TOTAL COMPRESSOR POWER HP 457.11

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 256.8 185.7
Capacity Wet/ Cylinder MMSCFD 4.05 3.08
HE Disch. Vol. Eff. % 0.00 35.35
CE Disch. Vol. Eff. % 36.20 34.60
HE Inlet Vol. Eff. % 0.00 75.59
CE Inlet Vol. Eff. % 77.42 74.00
Avg. Inlet Vol. Eff. % 38.71 74.80
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 33917 11783
Internal Gas Load - C LBF -7627 -15701
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 19875
Combined Rod Load - C LBF -20726 -18859
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 2.539
Adiabatic Disch. Temp. F 245.76
Est Actual Disch Temp F 268.64
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 296.5
CAPACITY ACTUAL WET MMSCFD 7.51
CAPACITY ACTUAL DRY MMSCFD 7.46
TOTAL COMPRESSOR POWER HP 462.45

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 259.8 188.0
Capacity Wet/ Cylinder MMSCFD 4.26 3.25
HE Disch. Vol. Eff. % 0.00 36.92
CE Disch. Vol. Eff. % 37.75 36.20
HE Inlet Vol. Eff. % 0.00 76.74
CE Inlet Vol. Eff. % 78.47 75.23
Avg. Inlet Vol. Eff. % 39.23 75.99
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 33203 11503
Internal Gas Load - C LBF -7688 -15450
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 20146
Combined Rod Load - C LBF -21338 -19210
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 2.453
Adiabatic Disch. Temp. F 240.99
Est Actual Disch Temp F 263.38
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 300.5
CAPACITY ACTUAL WET MMSCFD 7.88
CAPACITY ACTUAL DRY MMSCFD 7.84
TOTAL COMPRESSOR POWER HP 466.91

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 262.4 189.9
Capacity Wet/ Cylinder MMSCFD 4.47 3.41
HE Disch. Vol. Eff. % 0.00 38.49
CE Disch. Vol. Eff. % 39.30 37.78
HE Inlet Vol. Eff. % 0.00 77.82
CE Inlet Vol. Eff. % 79.46 76.39
Avg. Inlet Vol. Eff. % 39.73 77.11
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 32855 11224
Internal Gas Load - C LBF -7749 -15200
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 20416
Combined Rod Load - C LBF -21388 -19565
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 697.79
Disch. Line Pressure PSIG 690.00
Ratio of Compression 2.372
Adiabatic Disch. Temp. F 236.39
Est Actual Disch Temp F 258.33
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 304.2
CAPACITY ACTUAL WET MMSCFD 8.26
CAPACITY ACTUAL DRY MMSCFD 8.21
TOTAL COMPRESSOR POWER HP 470.55

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 264.5 191.5
Capacity Wet/ Cylinder MMSCFD 4.68 3.58
HE Disch. Vol. Eff. % 0.00 40.04
CE Disch. Vol. Eff. % 40.83 39.35
HE Inlet Vol. Eff. % 0.00 78.84
CE Inlet Vol. Eff. % 80.39 77.48
Avg. Inlet Vol. Eff. % 40.20 78.16
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 32146 11074
Internal Gas Load - C LBF -7810 -15060
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 20687
Combined Rod Load - C LBF -21437 -19920
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.270
Avg. Vol. Expon. (N)		1.276
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.969
Z Discharge		0.972
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	300.00
Inlet Press. @ Cyl Flg	PSIG	295.48
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	697.79
Disch. Line Pressure	PSIG	690.00
Ratio of Compression		2.297
Adiabatic Disch. Temp.	F	231.95
Est Actual Disch Temp	F	253.47
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	307.8
CAPACITY ACTUAL WET	MMSCFD	8.64
CAPACITY ACTUAL DRY	MMSCFD	8.59
TOTAL COMPRESSOR POWER	HP	473.39

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	266.1	192.6
Capacity Wet/ Cylinder	MMSCFD	4.89	3.75
HE Disch. Vol. Eff.	%	0.00	41.58
CE Disch. Vol. Eff.	%	42.35	40.91
HE Inlet Vol. Eff.	%	0.00	79.80
CE Inlet Vol. Eff.	%	81.27	78.51
Avg. Inlet Vol. Eff.	%	40.64	79.16
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	31439	10797
Internal Gas Load - C	LBF	-7871	-14813
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29769	20958
Combined Rod Load - C	LBF	-21859	-20244
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	95.0	160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 3.415
Adiabatic Disch. Temp. F 287.20
Est Actual Disch Temp F 315.36
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 257.2
CAPACITY ACTUAL WET MMSCFD 4.88
CAPACITY ACTUAL DRY MMSCFD 4.84
TOTAL COMPRESSOR POWER HP 406.16

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 228.3 163.3
Capacity Wet/ Cylinder MMSCFD 2.79 2.08
HE Disch. Vol. Eff. % 0.00 25.11
CE Disch. Vol. Eff. % 26.10 24.24
HE Inlet Vol. Eff. % 0.00 66.16
CE Inlet Vol. Eff. % 68.78 63.87
Avg. Inlet Vol. Eff. % 34.39 65.02
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 38153 13290
Internal Gas Load - C LBF -7358 -17228
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 18068
Combined Rod Load - C LBF -18486 -16616
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 3.263
Adiabatic Disch. Temp. F 280.79
Est Actual Disch Temp F 307.97
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 263.9
CAPACITY ACTUAL WET MMSCFD 5.24
CAPACITY ACTUAL DRY MMSCFD 5.20
TOTAL COMPRESSOR POWER HP 418.09

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 234.9 168.5
Capacity Wet/ Cylinder MMSCFD 3.00 2.24
HE Disch. Vol. Eff. % 0.00 26.75
CE Disch. Vol. Eff. % 27.72 25.90
HE Inlet Vol. Eff. % 0.00 67.96
CE Inlet Vol. Eff. % 70.42 65.80
Avg. Inlet Vol. Eff. % 35.21 66.88
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 37412 13172
Internal Gas Load - C LBF -7415 -16966
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 18340
Combined Rod Load - C LBF -19088 -16972
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 3.124
Adiabatic Disch. Temp. F 274.68
Est Actual Disch Temp F 300.99
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 270.0
CAPACITY ACTUAL WET MMSCFD 5.61
CAPACITY ACTUAL DRY MMSCFD 5.57
TOTAL COMPRESSOR POWER HP 428.83

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 240.9 173.3
Capacity Wet/ Cylinder MMSCFD 3.20 2.41
HE Disch. Vol. Eff. % 0.00 28.38
CE Disch. Vol. Eff. % 29.33 27.55
HE Inlet Vol. Eff. % 0.00 69.61
CE Inlet Vol. Eff. % 71.94 67.58
Avg. Inlet Vol. Eff. % 35.97 68.60
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 36678 12884
Internal Gas Load - C LBF -7472 -16705
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 18611
Combined Rod Load - C LBF -19638 -17327
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.996
Adiabatic Disch. Temp. F 268.85
Est Actual Disch Temp F 294.36
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 275.7
CAPACITY ACTUAL WET MMSCFD 5.98
CAPACITY ACTUAL DRY MMSCFD 5.93
TOTAL COMPRESSOR POWER HP 438.45

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 246.3 177.5
Capacity Wet/ Cylinder MMSCFD 3.41 2.57
HE Disch. Vol. Eff. % 0.00 29.99
CE Disch. Vol. Eff. % 30.92 29.18
HE Inlet Vol. Eff. % 0.00 71.15
CE Inlet Vol. Eff. % 73.34 69.23
Avg. Inlet Vol. Eff. % 36.67 70.19
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 36417 12598
Internal Gas Load - C LBF -7531 -16634
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 18882
Combined Rod Load - C LBF -19690 -17683
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.878
Adiabatic Disch. Temp. F 263.26
Est Actual Disch Temp F 288.06
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 281.0
CAPACITY ACTUAL WET MMSCFD 6.35
CAPACITY ACTUAL DRY MMSCFD 6.30
TOTAL COMPRESSOR POWER HP 447.01

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 251.1 181.3
Capacity Wet/ Cylinder MMSCFD 3.61 2.73
HE Disch. Vol. Eff. % 0.00 31.59
CE Disch. Vol. Eff. % 32.49 30.80
HE Inlet Vol. Eff. % 0.00 72.57
CE Inlet Vol. Eff. % 74.65 70.76
Avg. Inlet Vol. Eff. % 37.33 71.67
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 35691 12475
Internal Gas Load - C LBF -7590 -16377
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 19153
Combined Rod Load - C LBF -20378 -18038
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 0.978
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 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.770
Adiabatic Disch. Temp. F 257.89
Est Actual Disch Temp F 282.06
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 285.9
CAPACITY ACTUAL WET MMSCFD 6.72
CAPACITY ACTUAL DRY MMSCFD 6.67
TOTAL COMPRESSOR POWER HP 454.56

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 255.4 184.6
Capacity Wet/ Cylinder MMSCFD 3.82 2.90
HE Disch. Vol. Eff. % 0.00 33.18
CE Disch. Vol. Eff. % 34.06 32.40
HE Inlet Vol. Eff. % 0.00 73.90
CE Inlet Vol. Eff. % 75.87 72.18
Avg. Inlet Vol. Eff. % 37.93 73.04
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 34969 12192
Internal Gas Load - C LBF -7651 -16123
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 19424
Combined Rod Load - C LBF -20632 -18394
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.669
Adiabatic Disch. Temp. F 252.74
Est Actual Disch Temp F 276.32
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 290.5
CAPACITY ACTUAL WET MMSCFD 7.09
CAPACITY ACTUAL DRY MMSCFD 7.05
TOTAL COMPRESSOR POWER HP 461.15

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 259.1 187.4
Capacity Wet/ Cylinder MMSCFD 4.03 3.06
HE Disch. Vol. Eff. % 0.00 34.75
CE Disch. Vol. Eff. % 35.61 34.00
HE Inlet Vol. Eff. % 0.00 75.14
CE Inlet Vol. Eff. % 77.00 73.52
Avg. Inlet Vol. Eff. % 38.50 74.33
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 34675 12057
Internal Gas Load - C LBF -7711 -16020
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 19695
Combined Rod Load - C LBF -20683 -18765
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.575
Adiabatic Disch. Temp. F 247.79
Est Actual Disch Temp F 270.82
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 294.8
CAPACITY ACTUAL WET MMSCFD 7.47
CAPACITY ACTUAL DRY MMSCFD 7.42
TOTAL COMPRESSOR POWER HP 466.83

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 262.4 189.9
Capacity Wet/ Cylinder MMSCFD 4.24 3.23
HE Disch. Vol. Eff. % 0.00 36.31
CE Disch. Vol. Eff. % 37.15 35.58
HE Inlet Vol. Eff. % 0.00 76.31
CE Inlet Vol. Eff. % 78.07 74.76
Avg. Inlet Vol. Eff. % 39.03 75.54
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 33959 11777
Internal Gas Load - C LBF -7772 -15769
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 19966
Combined Rod Load - C LBF -21222 -19136
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.488
Adiabatic Disch. Temp. F 243.01
Est Actual Disch Temp F 265.55
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 298.9
CAPACITY ACTUAL WET MMSCFD 7.84
CAPACITY ACTUAL DRY MMSCFD 7.80
TOTAL COMPRESSOR POWER HP 471.64

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 265.1 191.9
Capacity Wet/ Cylinder MMSCFD 4.45 3.40
HE Disch. Vol. Eff. % 0.00 37.86
CE Disch. Vol. Eff. % 38.68 37.14
HE Inlet Vol. Eff. % 0.00 77.40
CE Inlet Vol. Eff. % 79.07 75.94
Avg. Inlet Vol. Eff. % 39.53 76.67
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 33247 11498
Internal Gas Load - C LBF -7833 -15519
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 20237
Combined Rod Load - C LBF -21432 -19460
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.406
Adiabatic Disch. Temp. F 238.41
Est Actual Disch Temp F 260.49
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 302.7
CAPACITY ACTUAL WET MMSCFD 8.22
CAPACITY ACTUAL DRY MMSCFD 8.17
TOTAL COMPRESSOR POWER HP 475.62

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 267.4 193.6
Capacity Wet/ Cylinder MMSCFD 4.66 3.56
HE Disch. Vol. Eff. % 0.00 39.40
CE Disch. Vol. Eff. % 40.19 38.70
HE Inlet Vol. Eff. % 0.00 78.43
CE Inlet Vol. Eff. % 80.01 77.04
Avg. Inlet Vol. Eff. % 40.01 77.73
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 32906 11349
Internal Gas Load - C LBF -7894 -15380
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 20508
Combined Rod Load - C LBF -21482 -19815
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 707.90
Disch. Line Pressure PSIG 700.00
Ratio of Compression 2.330
Adiabatic Disch. Temp. F 233.96
Est Actual Disch Temp F 255.61
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 306.3
CAPACITY ACTUAL WET MMSCFD 8.60
CAPACITY ACTUAL DRY MMSCFD 8.55
TOTAL COMPRESSOR POWER HP 478.79

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 269.3 194.9
Capacity Wet/ Cylinder MMSCFD 4.87 3.73
HE Disch. Vol. Eff. % 0.00 40.92
CE Disch. Vol. Eff. % 41.70 40.24
HE Inlet Vol. Eff. % 0.00 79.40
CE Inlet Vol. Eff. % 80.90 78.08
Avg. Inlet Vol. Eff. % 40.45 78.74
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 32198 11071
Internal Gas Load - C LBF -7955 -15133
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 20779
Combined Rod Load - C LBF -21606 -20170
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 95.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.985
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 3.462
Adiabatic Disch. Temp. F 289.25
Est Actual Disch Temp F 317.67
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 255.2
CAPACITY ACTUAL WET MMSCFD 4.84
CAPACITY ACTUAL DRY MMSCFD 4.80
TOTAL COMPRESSOR POWER HP 407.92

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 229.4 163.9
Capacity Wet/ Cylinder MMSCFD 2.77 2.06
HE Disch. Vol. Eff. % 0.00 24.63
CE Disch. Vol. Eff. % 25.63 23.76
HE Inlet Vol. Eff. % 0.00 65.62
CE Inlet Vol. Eff. % 68.28 63.29
Avg. Inlet Vol. Eff. % 34.14 64.45
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 38396 13561
Internal Gas Load - C LBF -7443 -17324
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 17888
Combined Rod Load - C LBF -18551 -16510
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 3.308
Adiabatic Disch. Temp. F 282.84
Est Actual Disch Temp F 310.25
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 261.9
CAPACITY ACTUAL WET MMSCFD 5.20
CAPACITY ACTUAL DRY MMSCFD 5.16
TOTAL COMPRESSOR POWER HP 420.22

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 236.3 169.4
Capacity Wet/ Cylinder MMSCFD 2.98 2.22
HE Disch. Vol. Eff. % 0.00 26.26
CE Disch. Vol. Eff. % 27.23 25.40
HE Inlet Vol. Eff. % 0.00 67.43
CE Inlet Vol. Eff. % 69.94 65.24
Avg. Inlet Vol. Eff. % 34.97 66.33
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 38164 13325
Internal Gas Load - C LBF -7499 -17284
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 18160
Combined Rod Load - C LBF -18938 -16865
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 3.167
Adiabatic Disch. Temp. F 276.72
Est Actual Disch Temp F 303.24
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 268.1
CAPACITY ACTUAL WET MMSCFD 5.57
CAPACITY ACTUAL DRY MMSCFD 5.53
TOTAL COMPRESSOR POWER HP 431.33

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 242.5 174.3
Capacity Wet/ Cylinder MMSCFD 3.18 2.39
HE Disch. Vol. Eff. % 0.00 27.87
CE Disch. Vol. Eff. % 28.82 27.03
HE Inlet Vol. Eff. % 0.00 69.11
CE Inlet Vol. Eff. % 71.48 67.04
Avg. Inlet Vol. Eff. % 35.74 68.07
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 37428 13156
Internal Gas Load - C LBF -7556 -17023
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 18431
Combined Rod Load - C LBF -19647 -17221
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 3.038
Adiabatic Disch. Temp. F 270.87
Est Actual Disch Temp F 296.59
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 273.9
CAPACITY ACTUAL WET MMSCFD 5.93
CAPACITY ACTUAL DRY MMSCFD 5.89
TOTAL COMPRESSOR POWER HP 441.30

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 248.0 178.6
Capacity Wet/ Cylinder MMSCFD 3.39 2.55
HE Disch. Vol. Eff. % 0.00 29.46
CE Disch. Vol. Eff. % 30.39 28.65
HE Inlet Vol. Eff. % 0.00 70.66
CE Inlet Vol. Eff. % 72.90 68.70
Avg. Inlet Vol. Eff. % 36.45 69.68
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 37173 12869
Internal Gas Load - C LBF -7615 -16927
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 18703
Combined Rod Load - C LBF -19748 -17577
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.979
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 2.919
Adiabatic Disch. Temp. F 265.28
Est Actual Disch Temp F 290.27
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 279.2
CAPACITY ACTUAL WET MMSCFD 6.31
CAPACITY ACTUAL DRY MMSCFD 6.26
TOTAL COMPRESSOR POWER HP 450.22

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 253.0 182.6
Capacity Wet/ Cylinder MMSCFD 3.59 2.71
HE Disch. Vol. Eff. % 0.00 31.04
CE Disch. Vol. Eff. % 31.95 30.25
HE Inlet Vol. Eff. % 0.00 72.10
CE Inlet Vol. Eff. % 74.21 70.25
Avg. Inlet Vol. Eff. % 37.11 71.17
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 36445 12748
Internal Gas Load - C LBF -7674 -16696
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 18974
Combined Rod Load - C LBF -20198 -17932
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 0.978
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 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 2.808
Adiabatic Disch. Temp. F 259.91
Est Actual Disch Temp F 284.25
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 284.2
CAPACITY ACTUAL WET MMSCFD 6.68
CAPACITY ACTUAL DRY MMSCFD 6.63
TOTAL COMPRESSOR POWER HP 458.12

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 257.5 186.0
Capacity Wet/ Cylinder MMSCFD 3.80 2.88
HE Disch. Vol. Eff. % 0.00 32.61
CE Disch. Vol. Eff. % 33.50 31.83
HE Inlet Vol. Eff. % 0.00 73.44
CE Inlet Vol. Eff. % 75.44 71.69
Avg. Inlet Vol. Eff. % 37.72 72.56
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 35722 12464
Internal Gas Load - C LBF -7734 -16441
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 19245
Combined Rod Load - C LBF -20683 -18298
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 2.706
Adiabatic Disch. Temp. F 254.75
Est Actual Disch Temp F 278.49
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 288.9
CAPACITY ACTUAL WET MMSCFD 7.05
CAPACITY ACTUAL DRY MMSCFD 7.01
TOTAL COMPRESSOR POWER HP 465.06

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 261.4 189.0
Capacity Wet/ Cylinder MMSCFD 4.01 3.04
HE Disch. Vol. Eff. % 0.00 34.17
CE Disch. Vol. Eff. % 35.04 33.41
HE Inlet Vol. Eff. % 0.00 74.70
CE Inlet Vol. Eff. % 76.59 73.04
Avg. Inlet Vol. Eff. % 38.30 73.87
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 35433 12183
Internal Gas Load - C LBF -7795 -16340
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 19516
Combined Rod Load - C LBF -20734 -18670
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 2.611
Adiabatic Disch. Temp. F 249.79
Est Actual Disch Temp F 272.98
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 293.2
CAPACITY ACTUAL WET MMSCFD 7.42
CAPACITY ACTUAL DRY MMSCFD 7.38
TOTAL COMPRESSOR POWER HP 471.09

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 264.8 191.6
Capacity Wet/ Cylinder MMSCFD 4.21 3.21
HE Disch. Vol. Eff. % 0.00 35.71
CE Disch. Vol. Eff. % 36.56 34.97
HE Inlet Vol. Eff. % 0.00 75.87
CE Inlet Vol. Eff. % 77.67 74.30
Avg. Inlet Vol. Eff. % 38.84 75.08
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 34716 12051
Internal Gas Load - C LBF -7856 -16088
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 19787
Combined Rod Load - C LBF -21007 -19042
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.268
Avg. Vol. Expon. (N)		1.274
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.971
Z Discharge		0.975
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	280.00
Inlet Press. @ Cyl Flg	PSIG	275.77
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	718.01
Disch. Line Pressure	PSIG	710.00
Ratio of Compression		2.523
Adiabatic Disch. Temp.	F	245.01
Est Actual Disch Temp	F	267.70
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	297.3
CAPACITY ACTUAL WET	MMSCFD	7.80
CAPACITY ACTUAL DRY	MMSCFD	7.76
TOTAL COMPRESSOR POWER	HP	476.24

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	267.8	193.8
Capacity Wet/ Cylinder	MMSCFD	4.42	3.38
HE Disch. Vol. Eff.	%	0.00	37.24
CE Disch. Vol. Eff.	%	38.07	36.52
HE Inlet Vol. Eff.	%	0.00	76.97
CE Inlet Vol. Eff.	%	78.68	75.48
Avg. Inlet Vol. Eff.	%	39.34	76.23
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	34002	11771
Internal Gas Load - C	LBF	-7917	-15838
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29839	20058
Combined Rod Load - C	LBF	-21477	-19354
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	90.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 2.440
Adiabatic Disch. Temp. F 240.40
Est Actual Disch Temp F 262.62
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 301.2
CAPACITY ACTUAL WET MMSCFD 8.18
CAPACITY ACTUAL DRY MMSCFD 8.13
TOTAL COMPRESSOR POWER HP 480.55

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 270.3 195.7
Capacity Wet/ Cylinder MMSCFD 4.63 3.54
HE Disch. Vol. Eff. % 0.00 38.76
CE Disch. Vol. Eff. % 39.57 38.06
HE Inlet Vol. Eff. % 0.00 78.01
CE Inlet Vol. Eff. % 79.63 76.60
Avg. Inlet Vol. Eff. % 39.82 77.30
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 33666 11493
Internal Gas Load - C LBF -7978 -15700
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 20329
Combined Rod Load - C LBF -21527 -19709
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.972
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 718.01
Disch. Line Pressure PSIG 710.00
Ratio of Compression 2.362
Adiabatic Disch. Temp. F 235.95
Est Actual Disch Temp F 257.73
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 304.8
CAPACITY ACTUAL WET MMSCFD 8.56
CAPACITY ACTUAL DRY MMSCFD 8.51
TOTAL COMPRESSOR POWER HP 484.06

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 272.3 197.1
Capacity Wet/ Cylinder MMSCFD 4.85 3.71
HE Disch. Vol. Eff. % 0.00 40.27
CE Disch. Vol. Eff. % 41.06 39.59
HE Inlet Vol. Eff. % 0.00 78.99
CE Inlet Vol. Eff. % 80.53 77.65
Avg. Inlet Vol. Eff. % 40.26 78.32
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 32957 11346
Internal Gas Load - C LBF -8040 -15452
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 20600
Combined Rod Load - C LBF -21576 -20065
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.267
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.985
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 3.510
Adiabatic Disch. Temp. F 291.27
Est Actual Disch Temp F 319.96
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 253.2
CAPACITY ACTUAL WET MMSCFD 4.80
CAPACITY ACTUAL DRY MMSCFD 4.76
TOTAL COMPRESSOR POWER HP 409.57

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 230.5 164.5
Capacity Wet/ Cylinder MMSCFD 2.75 2.05
HE Disch. Vol. Eff. % 0.00 24.16
CE Disch. Vol. Eff. % 25.17 23.28
HE Inlet Vol. Eff. % 0.00 65.08
CE Inlet Vol. Eff. % 67.78 62.70
Avg. Inlet Vol. Eff. % 33.89 63.89
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 39142 13833
Internal Gas Load - C LBF -7528 -17641
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 17709
Combined Rod Load - C LBF -18537 -16403
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

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PACKAGER:
LOCATION:
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DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 3.354
Adiabatic Disch. Temp. F 284.85
Est Actual Disch Temp F 312.51
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 260.0
CAPACITY ACTUAL WET MMSCFD 5.16
CAPACITY ACTUAL DRY MMSCFD 5.12
TOTAL COMPRESSOR POWER HP 422.24

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 237.5 170.1
Capacity Wet/ Cylinder MMSCFD 2.96 2.21
HE Disch. Vol. Eff. % 0.00 25.77
CE Disch. Vol. Eff. % 26.76 24.91
HE Inlet Vol. Eff. % 0.00 66.91
CE Inlet Vol. Eff. % 69.46 64.67
Avg. Inlet Vol. Eff. % 34.73 65.79
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 38916 13542
Internal Gas Load - C LBF -7583 -17603
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 17980
Combined Rod Load - C LBF -18789 -16759
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
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PACKAGER:
LOCATION:
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DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 3.211
Adiabatic Disch. Temp. F 278.73
Est Actual Disch Temp F 305.48
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 266.3
CAPACITY ACTUAL WET MMSCFD 5.53
CAPACITY ACTUAL DRY MMSCFD 5.49
TOTAL COMPRESSOR POWER HP 433.71

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 243.9 175.2
Capacity Wet/ Cylinder MMSCFD 3.16 2.37
HE Disch. Vol. Eff. % 0.00 27.37
CE Disch. Vol. Eff. % 28.33 26.52
HE Inlet Vol. Eff. % 0.00 68.60
CE Inlet Vol. Eff. % 71.01 66.49
Avg. Inlet Vol. Eff. % 35.51 67.55
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 38178 13428
Internal Gas Load - C LBF -7641 -17341
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 18252
Combined Rod Load - C LBF -19498 -17115
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 150.0

D-R Size Version
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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 3.080
Adiabatic Disch. Temp. F 272.88
Est Actual Disch Temp F 298.81
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 272.1
CAPACITY ACTUAL WET MMSCFD 5.90
CAPACITY ACTUAL DRY MMSCFD 5.85
TOTAL COMPRESSOR POWER HP 444.04

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 249.7 179.7
Capacity Wet/ Cylinder MMSCFD 3.37 2.53
HE Disch. Vol. Eff. % 0.00 28.94
CE Disch. Vol. Eff. % 29.88 28.12
HE Inlet Vol. Eff. % 0.00 70.17
CE Inlet Vol. Eff. % 72.45 68.17
Avg. Inlet Vol. Eff. % 36.22 69.17
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 37447 13141
Internal Gas Load - C LBF -7699 -17081
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 18523
Combined Rod Load - C LBF -19806 -17471
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 2.959
Adiabatic Disch. Temp. F 267.28
Est Actual Disch Temp F 292.46
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 277.5
CAPACITY ACTUAL WET MMSCFD 6.27
CAPACITY ACTUAL DRY MMSCFD 6.22
TOTAL COMPRESSOR POWER HP 453.31

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 254.9 183.8
Capacity Wet/ Cylinder MMSCFD 3.57 2.69
HE Disch. Vol. Eff. % 0.00 30.51
CE Disch. Vol. Eff. % 31.43 29.71
HE Inlet Vol. Eff. % 0.00 71.62
CE Inlet Vol. Eff. % 73.78 69.74
Avg. Inlet Vol. Eff. % 36.89 70.68
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 37200 13021
Internal Gas Load - C LBF -7758 -17016
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 18794
Combined Rod Load - C LBF -20018 -17831
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

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PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 0.978
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 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 2.847
Adiabatic Disch. Temp. F 261.90
Est Actual Disch Temp F 286.42
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 282.5
CAPACITY ACTUAL WET MMSCFD 6.64
CAPACITY ACTUAL DRY MMSCFD 6.59
TOTAL COMPRESSOR POWER HP 461.56

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 259.5 187.4
Capacity Wet/ Cylinder MMSCFD 3.78 2.86
HE Disch. Vol. Eff. % 0.00 32.06
CE Disch. Vol. Eff. % 32.96 31.28
HE Inlet Vol. Eff. % 0.00 72.98
CE Inlet Vol. Eff. % 75.02 71.19
Avg. Inlet Vol. Eff. % 37.51 72.09
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 36475 12737
Internal Gas Load - C LBF -7818 -16760
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 19066
Combined Rod Load - C LBF -20729 -18203
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 2.744
Adiabatic Disch. Temp. F 256.74
Est Actual Disch Temp F 280.65
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 287.2
CAPACITY ACTUAL WET MMSCFD 7.01
CAPACITY ACTUAL DRY MMSCFD 6.97
TOTAL COMPRESSOR POWER HP 468.85

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 263.7 190.6
Capacity Wet/ Cylinder MMSCFD 3.98 3.02
HE Disch. Vol. Eff. % 0.00 33.60
CE Disch. Vol. Eff. % 34.48 32.84
HE Inlet Vol. Eff. % 0.00 74.25
CE Inlet Vol. Eff. % 76.18 72.56
Avg. Inlet Vol. Eff. % 38.09 73.40
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 36013 12455
Internal Gas Load - C LBF -7879 -16506
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 19337
Combined Rod Load - C LBF -20786 -18575
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 728.12
Disch. Line Pressure PSIG 720.00
Ratio of Compression 2.647
Adiabatic Disch. Temp. F 251.78
Est Actual Disch Temp F 275.12
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 291.6
CAPACITY ACTUAL WET MMSCFD 7.38
CAPACITY ACTUAL DRY MMSCFD 7.34
TOTAL COMPRESSOR POWER HP 475.21

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 267.3 193.3
Capacity Wet/ Cylinder MMSCFD 4.19 3.19
HE Disch. Vol. Eff. % 0.00 35.13
CE Disch. Vol. Eff. % 35.98 34.38
HE Inlet Vol. Eff. % 0.00 75.44
CE Inlet Vol. Eff. % 77.27 73.83
Avg. Inlet Vol. Eff. % 38.64 74.63
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 35473 12325
Internal Gas Load - C LBF -7940 -16408
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 19608
Combined Rod Load - C LBF -20837 -18947
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.267
Avg. Vol. Expon. (N)		1.275
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.971
Z Discharge		0.975
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	280.00
Inlet Press. @ Cyl Flg	PSIG	275.77
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	728.12
Disch. Line Pressure	PSIG	720.00
Ratio of Compression		2.557
Adiabatic Disch. Temp.	F	246.99
Est Actual Disch Temp	F	269.82
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	295.7
CAPACITY ACTUAL WET	MMSCFD	7.76
CAPACITY ACTUAL DRY	MMSCFD	7.71
TOTAL COMPRESSOR POWER	HP	480.70

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	270.4	195.7
Capacity Wet/ Cylinder	MMSCFD	4.40	3.36
HE Disch. Vol. Eff.	%	0.00	36.64
CE Disch. Vol. Eff.	%	37.48	35.92
HE Inlet Vol. Eff.	%	0.00	76.55
CE Inlet Vol. Eff.	%	78.29	75.03
Avg. Inlet Vol. Eff.	%	39.15	75.79
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	34759	12045
Internal Gas Load - C	LBF	-8001	-16157
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29839	19879
Combined Rod Load - C	LBF	-21504	-19319
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	90.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.268
Avg. Vol. Expon. (N)		1.275
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.970
Z Discharge		0.974
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	290.00
Inlet Press. @ Cyl Flg	PSIG	285.62
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	728.12
Disch. Line Pressure	PSIG	720.00
Ratio of Compression		2.473
Adiabatic Disch. Temp.	F	242.38
Est Actual Disch Temp	F	264.73
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	299.6
CAPACITY ACTUAL WET	MMSCFD	8.14
CAPACITY ACTUAL DRY	MMSCFD	8.09
TOTAL COMPRESSOR POWER	HP	485.35

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	273.0	197.7
Capacity Wet/ Cylinder	MMSCFD	4.61	3.52
HE Disch. Vol. Eff.	%	0.00	38.15
CE Disch. Vol. Eff.	%	38.96	37.44
HE Inlet Vol. Eff.	%	0.00	77.60
CE Inlet Vol. Eff.	%	79.26	76.15
Avg. Inlet Vol. Eff.	%	39.63	76.88
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	34186	11766
Internal Gas Load - C	LBF	-8062	-15908
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29804	20150
Combined Rod Load - C	LBF	-21571	-19604
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	90.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.269
Avg. Vol. Expon. (N)		1.276
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.969
Z Discharge		0.972
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	300.00
Inlet Press. @ Cyl Flg	PSIG	295.48
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	728.12
Disch. Line Pressure	PSIG	720.00
Ratio of Compression		2.395
Adiabatic Disch. Temp.	F	237.92
Est Actual Disch Temp	F	259.83
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	303.3
CAPACITY ACTUAL WET	MMSCFD	8.52
CAPACITY ACTUAL DRY	MMSCFD	8.47
TOTAL COMPRESSOR POWER	HP	489.19

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	275.3	199.3
Capacity Wet/ Cylinder	MMSCFD	4.82	3.69
HE Disch. Vol. Eff.	%	0.00	39.64
CE Disch. Vol. Eff.	%	40.44	38.95
HE Inlet Vol. Eff.	%	0.00	78.59
CE Inlet Vol. Eff.	%	80.16	77.21
Avg. Inlet Vol. Eff.	%	40.08	77.90
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	33717	11620
Internal Gas Load - C	LBF	-8124	-15772
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29769	20421
Combined Rod Load - C	LBF	-21621	-19960
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	90.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.985
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 3.558
Adiabatic Disch. Temp. F 293.27
Est Actual Disch Temp F 322.23
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 251.2
CAPACITY ACTUAL WET MMSCFD 4.76
CAPACITY ACTUAL DRY MMSCFD 4.72
TOTAL COMPRESSOR POWER HP 411.12

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 231.5 165.0
Capacity Wet/ Cylinder MMSCFD 2.73 2.03
HE Disch. Vol. Eff. % 0.00 23.71
CE Disch. Vol. Eff. % 24.72 22.82
HE Inlet Vol. Eff. % 0.00 64.53
CE Inlet Vol. Eff. % 67.29 62.12
Avg. Inlet Vol. Eff. % 33.64 63.33
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 39888 14104
Internal Gas Load - C LBF -7613 -17957
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 17529
Combined Rod Load - C LBF -18416 -16297
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 3.400
Adiabatic Disch. Temp. F 286.85
Est Actual Disch Temp F 314.75
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 258.1
CAPACITY ACTUAL WET MMSCFD 5.12
CAPACITY ACTUAL DRY MMSCFD 5.08
TOTAL COMPRESSOR POWER HP 424.15

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 238.7 170.8
Capacity Wet/ Cylinder MMSCFD 2.94 2.19
HE Disch. Vol. Eff. % 0.00 25.30
CE Disch. Vol. Eff. % 26.29 24.43
HE Inlet Vol. Eff. % 0.00 66.39
CE Inlet Vol. Eff. % 68.99 64.11
Avg. Inlet Vol. Eff. % 34.49 65.25
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 39669 13812
Internal Gas Load - C LBF -7668 -17922
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 17800
Combined Rod Load - C LBF -18733 -16653
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 3.255
Adiabatic Disch. Temp. F 280.72
Est Actual Disch Temp F 307.69
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 264.4
CAPACITY ACTUAL WET MMSCFD 5.49
CAPACITY ACTUAL DRY MMSCFD 5.45
TOTAL COMPRESSOR POWER HP 435.98

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 245.3 176.0
Capacity Wet/ Cylinder MMSCFD 3.14 2.35
HE Disch. Vol. Eff. % 0.00 26.88
CE Disch. Vol. Eff. % 27.85 26.03
HE Inlet Vol. Eff. % 0.00 68.10
CE Inlet Vol. Eff. % 70.55 65.95
Avg. Inlet Vol. Eff. % 35.28 67.02
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 38929 13701
Internal Gas Load - C LBF -7725 -17659
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 18072
Combined Rod Load - C LBF -19349 -17009
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 3.122
Adiabatic Disch. Temp. F 274.86
Est Actual Disch Temp F 300.99
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 270.3
CAPACITY ACTUAL WET MMSCFD 5.86
CAPACITY ACTUAL DRY MMSCFD 5.82
TOTAL COMPRESSOR POWER HP 446.67

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 251.3 180.8
Capacity Wet/ Cylinder MMSCFD 3.34 2.51
HE Disch. Vol. Eff. % 0.00 28.44
CE Disch. Vol. Eff. % 29.39 27.61
HE Inlet Vol. Eff. % 0.00 69.68
CE Inlet Vol. Eff. % 72.00 67.65
Avg. Inlet Vol. Eff. % 36.00 68.67
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 38196 13413
Internal Gas Load - C LBF -7783 -17398
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 18344
Combined Rod Load - C LBF -19864 -17365
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.999
Adiabatic Disch. Temp. F 269.25
Est Actual Disch Temp F 294.63
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 275.7
CAPACITY ACTUAL WET MMSCFD 6.23
CAPACITY ACTUAL DRY MMSCFD 6.18
TOTAL COMPRESSOR POWER HP 456.29

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 256.7 185.0
Capacity Wet/ Cylinder MMSCFD 3.55 2.68
HE Disch. Vol. Eff. % 0.00 29.99
CE Disch. Vol. Eff. % 30.92 29.18
HE Inlet Vol. Eff. % 0.00 71.15
CE Inlet Vol. Eff. % 73.35 69.23
Avg. Inlet Vol. Eff. % 36.67 70.19
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 37955 13127
Internal Gas Load - C LBF -7842 -17335
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 18615
Combined Rod Load - C LBF -19917 -17736
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
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 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.886
Adiabatic Disch. Temp. F 263.87
Est Actual Disch Temp F 288.57
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 280.8
CAPACITY ACTUAL WET MMSCFD 6.60
CAPACITY ACTUAL DRY MMSCFD 6.55
TOTAL COMPRESSOR POWER HP 464.88

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 261.5 188.7
Capacity Wet/ Cylinder MMSCFD 3.76 2.84
HE Disch. Vol. Eff. % 0.00 31.53
CE Disch. Vol. Eff. % 32.43 30.73
HE Inlet Vol. Eff. % 0.00 72.52
CE Inlet Vol. Eff. % 74.60 70.70
Avg. Inlet Vol. Eff. % 37.30 71.61
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 37229 13010
Internal Gas Load - C LBF -7902 -17079
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 18886
Combined Rod Load - C LBF -20549 -18108
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.781
Adiabatic Disch. Temp. F 258.71
Est Actual Disch Temp F 282.78
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 285.6
CAPACITY ACTUAL WET MMSCFD 6.97
CAPACITY ACTUAL DRY MMSCFD 6.93
TOTAL COMPRESSOR POWER HP 472.51

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 265.8 192.1
Capacity Wet/ Cylinder MMSCFD 3.96 3.01
HE Disch. Vol. Eff. % 0.00 33.05
CE Disch. Vol. Eff. % 33.93 32.28
HE Inlet Vol. Eff. % 0.00 73.80
CE Inlet Vol. Eff. % 75.78 72.08
Avg. Inlet Vol. Eff. % 37.89 72.94
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 36508 12728
Internal Gas Load - C LBF -7962 -16824
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 19157
Combined Rod Load - C LBF -20837 -18480
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.683
Adiabatic Disch. Temp. F 253.74
Est Actual Disch Temp F 277.24
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 290.0
CAPACITY ACTUAL WET MMSCFD 7.34
CAPACITY ACTUAL DRY MMSCFD 7.30
TOTAL COMPRESSOR POWER HP 479.21

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 269.6 195.0
Capacity Wet/ Cylinder MMSCFD 4.17 3.17
HE Disch. Vol. Eff. % 0.00 34.56
CE Disch. Vol. Eff. % 35.42 33.81
HE Inlet Vol. Eff. % 0.00 75.00
CE Inlet Vol. Eff. % 76.88 73.37
Avg. Inlet Vol. Eff. % 38.44 74.18
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 36231 12525
Internal Gas Load - C LBF -8023 -16728
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 19429
Combined Rod Load - C LBF -20888 -18852
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.592
Adiabatic Disch. Temp. F 248.95
Est Actual Disch Temp F 271.92
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 294.2
CAPACITY ACTUAL WET MMSCFD 7.72
CAPACITY ACTUAL DRY MMSCFD 7.67
TOTAL COMPRESSOR POWER HP 485.03

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 272.9 197.5
Capacity Wet/ Cylinder MMSCFD 4.38 3.34
HE Disch. Vol. Eff. % 0.00 36.06
CE Disch. Vol. Eff. % 36.90 35.32
HE Inlet Vol. Eff. % 0.00 76.13
CE Inlet Vol. Eff. % 77.91 74.57
Avg. Inlet Vol. Eff. % 38.95 75.35
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 35515 12319
Internal Gas Load - C LBF -8084 -16476
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 19700
Combined Rod Load - C LBF -21290 -19224
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.507
Adiabatic Disch. Temp. F 244.32
Est Actual Disch Temp F 266.82
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 298.1
CAPACITY ACTUAL WET MMSCFD 8.09
CAPACITY ACTUAL DRY MMSCFD 8.05
TOTAL COMPRESSOR POWER HP 490.01

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 275.8 199.6
Capacity Wet/ Cylinder MMSCFD 4.59 3.50
HE Disch. Vol. Eff. % 0.00 37.55
CE Disch. Vol. Eff. % 38.37 36.83
HE Inlet Vol. Eff. % 0.00 77.19
CE Inlet Vol. Eff. % 78.88 75.71
Avg. Inlet Vol. Eff. % 39.44 76.45
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 34802 12040
Internal Gas Load - C LBF -8146 -16227
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 19971
Combined Rod Load - C LBF -21616 -19499
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 738.23
Disch. Line Pressure PSIG 730.00
Ratio of Compression 2.427
Adiabatic Disch. Temp. F 239.86
Est Actual Disch Temp F 261.91
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 301.8
CAPACITY ACTUAL WET MMSCFD 8.47
CAPACITY ACTUAL DRY MMSCFD 8.43
TOTAL COMPRESSOR POWER HP 494.18

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 278.2 201.4
Capacity Wet/ Cylinder MMSCFD 4.80 3.67
HE Disch. Vol. Eff. % 0.00 39.03
CE Disch. Vol. Eff. % 39.83 38.33
HE Inlet Vol. Eff. % 0.00 78.19
CE Inlet Vol. Eff. % 79.80 76.79
Avg. Inlet Vol. Eff. % 39.90 77.49
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 34476 11865
Internal Gas Load - C LBF -8207 -16092
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 20242
Combined Rod Load - C LBF -21666 -19854
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.259
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.985
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 3.606
Adiabatic Disch. Temp. F 295.25
Est Actual Disch Temp F 324.48
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 249.2
CAPACITY ACTUAL WET MMSCFD 4.72
CAPACITY ACTUAL DRY MMSCFD 4.69
TOTAL COMPRESSOR POWER HP 412.57

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 232.4 165.5
Capacity Wet/ Cylinder MMSCFD 2.71 2.01
HE Disch. Vol. Eff. % 0.00 23.27
CE Disch. Vol. Eff. % 24.28 22.38
HE Inlet Vol. Eff. % 0.00 64.00
CE Inlet Vol. Eff. % 66.80 61.54
Avg. Inlet Vol. Eff. % 33.40 62.77
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 40635 14376
Internal Gas Load - C LBF -7698 -18274
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 17349
Combined Rod Load - C LBF -18294 -16191
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 3.445
Adiabatic Disch. Temp. F 288.82
Est Actual Disch Temp F 316.97
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 256.1
CAPACITY ACTUAL WET MMSCFD 5.09
CAPACITY ACTUAL DRY MMSCFD 5.05
TOTAL COMPRESSOR POWER HP 425.96

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 239.9 171.5
Capacity Wet/ Cylinder MMSCFD 2.92 2.17
HE Disch. Vol. Eff. % 0.00 24.84
CE Disch. Vol. Eff. % 25.84 23.97
HE Inlet Vol. Eff. % 0.00 65.87
CE Inlet Vol. Eff. % 68.51 63.56
Avg. Inlet Vol. Eff. % 34.26 64.71
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 40042 14083
Internal Gas Load - C LBF -7753 -18059
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 17621
Combined Rod Load - C LBF -18798 -16547
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 3.299
Adiabatic Disch. Temp. F 282.68
Est Actual Disch Temp F 309.88
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 262.5
CAPACITY ACTUAL WET MMSCFD 5.45
CAPACITY ACTUAL DRY MMSCFD 5.41
TOTAL COMPRESSOR POWER HP 438.15

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 246.7 176.9
Capacity Wet/ Cylinder MMSCFD 3.12 2.33
HE Disch. Vol. Eff. % 0.00 26.40
CE Disch. Vol. Eff. % 27.38 25.55
HE Inlet Vol. Eff. % 0.00 67.60
CE Inlet Vol. Eff. % 70.09 65.41
Avg. Inlet Vol. Eff. % 35.05 66.50
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 39681 13935
Internal Gas Load - C LBF -7809 -17977
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 17892
Combined Rod Load - C LBF -19201 -16903
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.981
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 3.164
Adiabatic Disch. Temp. F 276.82
Est Actual Disch Temp F 303.16
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 268.5
CAPACITY ACTUAL WET MMSCFD 5.82
CAPACITY ACTUAL DRY MMSCFD 5.78
TOTAL COMPRESSOR POWER HP 449.19

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 252.8 181.7
Capacity Wet/ Cylinder MMSCFD 3.32 2.49
HE Disch. Vol. Eff. % 0.00 27.95
CE Disch. Vol. Eff. % 28.90 27.11
HE Inlet Vol. Eff. % 0.00 69.20
CE Inlet Vol. Eff. % 71.56 67.13
Avg. Inlet Vol. Eff. % 35.78 68.16
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 38946 13685
Internal Gas Load - C LBF -7867 -17716
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 18164
Combined Rod Load - C LBF -19910 -17269
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 3.040
Adiabatic Disch. Temp. F 271.21
Est Actual Disch Temp F 296.78
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 274.0
CAPACITY ACTUAL WET MMSCFD 6.19
CAPACITY ACTUAL DRY MMSCFD 6.14
TOTAL COMPRESSOR POWER HP 459.15

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 258.4 186.1
Capacity Wet/ Cylinder MMSCFD 3.53 2.66
HE Disch. Vol. Eff. % 0.00 29.48
CE Disch. Vol. Eff. % 30.41 28.67
HE Inlet Vol. Eff. % 0.00 70.68
CE Inlet Vol. Eff. % 72.92 68.73
Avg. Inlet Vol. Eff. % 36.46 69.70
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 38710 13399
Internal Gas Load - C LBF -7926 -17643
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 18435
Combined Rod Load - C LBF -19975 -17641
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 2.925
Adiabatic Disch. Temp. F 265.82
Est Actual Disch Temp F 290.70
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 30.20
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 37983 13284
Internal Gas Load - C LBF -7985 -17398
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

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 2.818
Adiabatic Disch. Temp. F 260.65
Est Actual Disch Temp F 284.89
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 283.9
CAPACITY ACTUAL WET MMSCFD 6.93
CAPACITY ACTUAL DRY MMSCFD 6.89
TOTAL COMPRESSOR POWER HP 476.05

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 267.9 193.5
Capacity Wet/ Cylinder MMSCFD 3.94 2.99
HE Disch. Vol. Eff. % 0.00 32.51
CE Disch. Vol. Eff. % 33.40 31.73
HE Inlet Vol. Eff. % 0.00 73.36
CE Inlet Vol. Eff. % 75.37 71.60
Avg. Inlet Vol. Eff. % 37.69 72.48
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 37260 13000
Internal Gas Load - C LBF -8046 -17143
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 18978
Combined Rod Load - C LBF -20888 -18385
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 2.719
Adiabatic Disch. Temp. F 255.67
Est Actual Disch Temp F 279.33
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 288.4
CAPACITY ACTUAL WET MMSCFD 7.30
CAPACITY ACTUAL DRY MMSCFD 7.26
TOTAL COMPRESSOR POWER HP 483.09

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 271.9 196.6
Capacity Wet/ Cylinder MMSCFD 4.15 3.15
HE Disch. Vol. Eff. % 0.00 34.01
CE Disch. Vol. Eff. % 34.88 33.24
HE Inlet Vol. Eff. % 0.00 74.57
CE Inlet Vol. Eff. % 76.48 72.90
Avg. Inlet Vol. Eff. % 38.24 73.74
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 36988 12719
Internal Gas Load - C LBF -8107 -17021
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 19249
Combined Rod Load - C LBF -20940 -18757
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
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DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.267
Avg. Vol. Expon. (N)		1.275
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.971
Z Discharge		0.975
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	280.00
Inlet Press. @ Cyl Flg	PSIG	275.77
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	748.34
Disch. Line Pressure	PSIG	740.00
Ratio of Compression		2.627
Adiabatic Disch. Temp.	F	250.88
Est Actual Disch Temp	F	274.00
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	292.6
CAPACITY ACTUAL WET	MMSCFD	7.68
CAPACITY ACTUAL DRY	MMSCFD	7.63
TOTAL COMPRESSOR POWER	HP	489.24

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	275.4	199.2
Capacity Wet/ Cylinder	MMSCFD	4.36	3.32
HE Disch. Vol. Eff.	%	0.00	35.49
CE Disch. Vol. Eff.	%	36.34	34.75
HE Inlet Vol. Eff.	%	0.00	75.71
CE Inlet Vol. Eff.	%	77.52	74.12
Avg. Inlet Vol. Eff.	%	38.76	74.92
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	36272	12593
Internal Gas Load - C	LBF	-8168	-16796
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29839	19521
Combined Rod Load - C	LBF	-21076	-19130
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	85.0	160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
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DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 2.541
Adiabatic Disch. Temp. F 246.25
Est Actual Disch Temp F 268.88
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 296.6
CAPACITY ACTUAL WET MMSCFD 8.05
CAPACITY ACTUAL DRY MMSCFD 8.01
TOTAL COMPRESSOR POWER HP 494.54

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 278.4 201.5
Capacity Wet/ Cylinder MMSCFD 4.57 3.49
HE Disch. Vol. Eff. % 0.00 36.96
CE Disch. Vol. Eff. % 37.79 36.24
HE Inlet Vol. Eff. % 0.00 76.78
CE Inlet Vol. Eff. % 78.51 75.27
Avg. Inlet Vol. Eff. % 39.25 76.03
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 35558 12313
Internal Gas Load - C LBF -8230 -16545
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 19792
Combined Rod Load - C LBF -21661 -19455
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 748.34
Disch. Line Pressure PSIG 740.00
Ratio of Compression 2.460
Adiabatic Disch. Temp. F 241.78
Est Actual Disch Temp F 263.96
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 300.3
CAPACITY ACTUAL WET MMSCFD 8.43
CAPACITY ACTUAL DRY MMSCFD 8.39
TOTAL COMPRESSOR POWER HP 499.04

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 281.0 203.4
Capacity Wet/ Cylinder MMSCFD 4.78 3.65
HE Disch. Vol. Eff. % 0.00 38.43
CE Disch. Vol. Eff. % 39.24 37.72
HE Inlet Vol. Eff. % 0.00 77.79
CE Inlet Vol. Eff. % 79.43 76.36
Avg. Inlet Vol. Eff. % 39.72 77.07
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 35237 12034
Internal Gas Load - C LBF -8291 -16296
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 20063
Combined Rod Load - C LBF -21710 -19749
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.259
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.985
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 3.654
Adiabatic Disch. Temp. F 297.20
Est Actual Disch Temp F 326.71
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 247.2
CAPACITY ACTUAL WET MMSCFD 4.69
CAPACITY ACTUAL DRY MMSCFD 4.65
TOTAL COMPRESSOR POWER HP 413.93

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 233.3 166.0
Capacity Wet/ Cylinder MMSCFD 2.69 1.99
HE Disch. Vol. Eff. % 0.00 22.83
CE Disch. Vol. Eff. % 23.86 21.94
HE Inlet Vol. Eff. % 0.00 63.46
CE Inlet Vol. Eff. % 66.30 60.97
Avg. Inlet Vol. Eff. % 33.15 62.21
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 41383 14648
Internal Gas Load - C LBF -7783 -18592
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 17169
Combined Rod Load - C LBF -18173 -16084
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 3.491
Adiabatic Disch. Temp. F 290.76
Est Actual Disch Temp F 319.17
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 254.2
CAPACITY ACTUAL WET MMSCFD 5.05
CAPACITY ACTUAL DRY MMSCFD 5.01
TOTAL COMPRESSOR POWER HP 427.67

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 241.0 172.1
Capacity Wet/ Cylinder MMSCFD 2.90 2.15
HE Disch. Vol. Eff. % 0.00 24.39
CE Disch. Vol. Eff. % 25.40 23.52
HE Inlet Vol. Eff. % 0.00 65.35
CE Inlet Vol. Eff. % 68.04 63.00
Avg. Inlet Vol. Eff. % 34.02 64.17
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 40637 14354
Internal Gas Load - C LBF -7837 -18324
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 17441
Combined Rod Load - C LBF -18863 -16440
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 3.342
Adiabatic Disch. Temp. F 284.62
Est Actual Disch Temp F 312.05
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 260.7
CAPACITY ACTUAL WET MMSCFD 5.41
CAPACITY ACTUAL DRY MMSCFD 5.37
TOTAL COMPRESSOR POWER HP 440.21

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 248.0 177.6
Capacity Wet/ Cylinder MMSCFD 3.10 2.31
HE Disch. Vol. Eff. % 0.00 25.94
CE Disch. Vol. Eff. % 26.92 25.08
HE Inlet Vol. Eff. % 0.00 67.10
CE Inlet Vol. Eff. % 69.63 64.87
Avg. Inlet Vol. Eff. % 34.82 65.98
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 40433 14064
Internal Gas Load - C LBF -7893 -18296
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 17713
Combined Rod Load - C LBF -19052 -16801
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.262
Avg. Vol. Expon. (N)		1.270
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.976
Z Discharge		0.982
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	230.00
Inlet Press. @ Cyl Flg	PSIG	226.49
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	758.45
Disch. Line Pressure	PSIG	750.00
Ratio of Compression		3.206
Adiabatic Disch. Temp.	F	278.75
Est Actual Disch Temp	F	305.31
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	266.7
CAPACITY ACTUAL WET	MMSCFD	5.78
CAPACITY ACTUAL DRY	MMSCFD	5.74
TOTAL COMPRESSOR POWER	HP	451.60

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	254.3	182.7
Capacity Wet/ Cylinder	MMSCFD	3.30	2.48
HE Disch. Vol. Eff.	%	0.00	27.47
CE Disch. Vol. Eff.	%	28.43	26.63
HE Inlet Vol. Eff.	%	0.00	68.71
CE Inlet Vol. Eff.	%	71.11	66.61
Avg. Inlet Vol. Eff.	%	35.56	67.66
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	39696	13957
Internal Gas Load - C	LBF	-7951	-18034
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	30013	17984
Combined Rod Load - C	LBF	-19761	-17173
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	80.0	160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.263
Avg. Vol. Expon. (N)		1.271
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.975
Z Discharge		0.980
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	240.00
Inlet Press. @ Cyl Flg	PSIG	236.34
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	758.45
Disch. Line Pressure	PSIG	750.00
Ratio of Compression		3.080
Adiabatic Disch. Temp.	F	273.14
Est Actual Disch Temp	F	298.91
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	272.2
CAPACITY ACTUAL WET	MMSCFD	6.15
CAPACITY ACTUAL DRY	MMSCFD	6.11
TOTAL COMPRESSOR POWER	HP	461.90

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	260.1	187.2
Capacity Wet/ Cylinder	MMSCFD	3.51	2.64
HE Disch. Vol. Eff.	%	0.00	28.99
CE Disch. Vol. Eff.	%	29.92	28.16
HE Inlet Vol. Eff.	%	0.00	70.21
CE Inlet Vol. Eff.	%	72.49	68.22
Avg. Inlet Vol. Eff.	%	36.24	69.22
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	38994	13670
Internal Gas Load - C	LBF	-8010	-17774
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29978	18256
Combined Rod Load - C	LBF	-20033	-17546
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	85.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 2.963
Adiabatic Disch. Temp. F 267.75
Est Actual Disch Temp F 292.81
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 277.4
CAPACITY ACTUAL WET MMSCFD 6.52
CAPACITY ACTUAL DRY MMSCFD 6.48
TOTAL COMPRESSOR POWER HP 471.18

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 265.3 191.3
Capacity Wet/ Cylinder MMSCFD 3.71 2.80
HE Disch. Vol. Eff. % 0.00 30.49
CE Disch. Vol. Eff. % 31.41 29.69
HE Inlet Vol. Eff. % 0.00 71.61
CE Inlet Vol. Eff. % 73.77 69.72
Avg. Inlet Vol. Eff. % 36.89 70.67
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 38737 13557
Internal Gas Load - C LBF -8069 -17717
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 18527
Combined Rod Load - C LBF -20190 -17918
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 2.856
Adiabatic Disch. Temp. F 262.57
Est Actual Disch Temp F 286.98
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 282.3
CAPACITY ACTUAL WET MMSCFD 6.89
CAPACITY ACTUAL DRY MMSCFD 6.85
TOTAL COMPRESSOR POWER HP 479.48

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 270.0 194.9
Capacity Wet/ Cylinder MMSCFD 3.92 2.97
HE Disch. Vol. Eff. % 0.00 31.98
CE Disch. Vol. Eff. % 32.88 31.20
HE Inlet Vol. Eff. % 0.00 72.92
CE Inlet Vol. Eff. % 74.97 71.13
Avg. Inlet Vol. Eff. % 37.48 72.02
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 38013 13273
Internal Gas Load - C LBF -8129 -17461
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 18799
Combined Rod Load - C LBF -20901 -18290
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.266
Avg. Vol. Expon. (N) 1.274
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.972
Z Discharge 0.977
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 270.00
Inlet Press. @ Cyl Flg PSIG 265.91
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 2.755
Adiabatic Disch. Temp. F 257.59
Est Actual Disch Temp F 281.41
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 286.8
CAPACITY ACTUAL WET MMSCFD 7.26
CAPACITY ACTUAL DRY MMSCFD 7.22
TOTAL COMPRESSOR POWER HP 486.84

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 274.1 198.1
Capacity Wet/ Cylinder MMSCFD 4.13 3.13
HE Disch. Vol. Eff. % 0.00 33.46
CE Disch. Vol. Eff. % 34.34 32.70
HE Inlet Vol. Eff. % 0.00 74.14
CE Inlet Vol. Eff. % 76.09 72.44
Avg. Inlet Vol. Eff. % 38.04 73.29
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 37374 12991
Internal Gas Load - C LBF -8190 -17208
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29874 19070
Combined Rod Load - C LBF -20991 -18663
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.975
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 2.662
Adiabatic Disch. Temp. F 252.79
Est Actual Disch Temp F 276.06
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 291.1
CAPACITY ACTUAL WET MMSCFD 7.64
CAPACITY ACTUAL DRY MMSCFD 7.59
TOTAL COMPRESSOR POWER HP 493.32

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 277.8 200.9
Capacity Wet/ Cylinder MMSCFD 4.34 3.30
HE Disch. Vol. Eff. % 0.00 34.93
CE Disch. Vol. Eff. % 35.79 34.18
HE Inlet Vol. Eff. % 0.00 75.29
CE Inlet Vol. Eff. % 77.14 73.68
Avg. Inlet Vol. Eff. % 38.57 74.48
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 37029 12867
Internal Gas Load - C LBF -8252 -17115
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 19341
Combined Rod Load - C LBF -21043 -19035
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 2.574
Adiabatic Disch. Temp. F 248.16
Est Actual Disch Temp F 270.93
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 295.1
CAPACITY ACTUAL WET MMSCFD 8.01
CAPACITY ACTUAL DRY MMSCFD 7.97
TOTAL COMPRESSOR POWER HP 498.95

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 281.0 203.4
Capacity Wet/ Cylinder MMSCFD 4.55 3.47
HE Disch. Vol. Eff. % 0.00 36.39
CE Disch. Vol. Eff. % 37.23 35.66
HE Inlet Vol. Eff. % 0.00 76.37
CE Inlet Vol. Eff. % 78.13 74.84
Avg. Inlet Vol. Eff. % 39.07 75.61
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 36314 12587
Internal Gas Load - C LBF -8313 -16864
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 19613
Combined Rod Load - C LBF -21574 -19407
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.269
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 758.45
Disch. Line Pressure PSIG 750.00
Ratio of Compression 2.493
Adiabatic Disch. Temp. F 243.68
Est Actual Disch Temp F 265.99
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 298.9
CAPACITY ACTUAL WET MMSCFD 8.39
CAPACITY ACTUAL DRY MMSCFD 8.35
TOTAL COMPRESSOR POWER HP 503.77

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 283.7 205.4
Capacity Wet/ Cylinder MMSCFD 4.76 3.63
HE Disch. Vol. Eff. % 0.00 37.84
CE Disch. Vol. Eff. % 38.66 37.13
HE Inlet Vol. Eff. % 0.00 77.39
CE Inlet Vol. Eff. % 79.07 75.93
Avg. Inlet Vol. Eff. % 39.53 76.66
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 35603 12308
Internal Gas Load - C LBF -8375 -16615
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 19884
Combined Rod Load - C LBF -21755 -19644
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 90.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.259
Avg. Vol. Expon. (N) 1.268
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.979
Z Discharge 0.986
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 200.00
Inlet Press. @ Cyl Flg PSIG 196.92
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 3.701
Adiabatic Disch. Temp. F 299.13
Est Actual Disch Temp F 328.92
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 245.2
CAPACITY ACTUAL WET MMSCFD 4.65
CAPACITY ACTUAL DRY MMSCFD 4.61
TOTAL COMPRESSOR POWER HP 415.18

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 234.2 166.4
Capacity Wet/ Cylinder MMSCFD 2.67 1.97
HE Disch. Vol. Eff. % 0.00 22.41
CE Disch. Vol. Eff. % 23.44 21.51
HE Inlet Vol. Eff. % 0.00 62.92
CE Inlet Vol. Eff. % 65.81 60.39
Avg. Inlet Vol. Eff. % 32.91 61.66
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 42131 14751
Internal Gas Load - C LBF -7868 -18909
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30118 16989
Combined Rod Load - C LBF -18052 -15978
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 145.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.260
Avg. Vol. Expon. (N) 1.269
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.978
Z Discharge 0.984
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 210.00
Inlet Press. @ Cyl Flg PSIG 206.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 3.537
Adiabatic Disch. Temp. F 292.69
Est Actual Disch Temp F 321.35
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 252.3
CAPACITY ACTUAL WET MMSCFD 5.01
CAPACITY ACTUAL DRY MMSCFD 4.97
TOTAL COMPRESSOR POWER HP 429.29

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 242.0 172.7
Capacity Wet/ Cylinder MMSCFD 2.88 2.13
HE Disch. Vol. Eff. % 0.00 23.95
CE Disch. Vol. Eff. % 24.96 23.07
HE Inlet Vol. Eff. % 0.00 64.83
CE Inlet Vol. Eff. % 67.56 62.44
Avg. Inlet Vol. Eff. % 33.78 63.64
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 41384 14625
Internal Gas Load - C LBF -7922 -18641
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30083 17261
Combined Rod Load - C LBF -18759 -16334
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.261
Avg. Vol. Expon. (N) 1.270
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.977
Z Discharge 0.983
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 220.00
Inlet Press. @ Cyl Flg PSIG 216.63
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 3.386
Adiabatic Disch. Temp. F 286.54
Est Actual Disch Temp F 314.21
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 258.8
CAPACITY ACTUAL WET MMSCFD 5.38
CAPACITY ACTUAL DRY MMSCFD 5.34
TOTAL COMPRESSOR POWER HP 442.17

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 249.2 178.4
Capacity Wet/ Cylinder MMSCFD 3.08 2.30
HE Disch. Vol. Eff. % 0.00 25.48
CE Disch. Vol. Eff. % 26.47 24.62
HE Inlet Vol. Eff. % 0.00 66.60
CE Inlet Vol. Eff. % 69.18 64.34
Avg. Inlet Vol. Eff. % 34.59 65.47
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 41185 14334
Internal Gas Load - C LBF -7978 -18615
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30048 17533
Combined Rod Load - C LBF -18979 -16706
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 150.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.262
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.976
Z Discharge 0.982
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 230.00
Inlet Press. @ Cyl Flg PSIG 226.49
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 3.248
Adiabatic Disch. Temp. F 280.67
Est Actual Disch Temp F 307.44
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 264.9
CAPACITY ACTUAL WET MMSCFD 5.74
CAPACITY ACTUAL DRY MMSCFD 5.70
TOTAL COMPRESSOR POWER HP 453.90

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 255.7 183.6
Capacity Wet/ Cylinder MMSCFD 3.28 2.46
HE Disch. Vol. Eff. % 0.00 27.00
CE Disch. Vol. Eff. % 27.97 26.15
HE Inlet Vol. Eff. % 0.00 68.23
CE Inlet Vol. Eff. % 70.67 66.09
Avg. Inlet Vol. Eff. % 35.34 67.16
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 40447 14230
Internal Gas Load - C LBF -8035 -18352
MACGL LBF 44275 44275
Combined Rod Load - T LBF 30013 17805
Combined Rod Load - C LBF -19613 -17078
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.263
Avg. Vol. Expon. (N) 1.271
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.975
Z Discharge 0.980
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 240.00
Inlet Press. @ Cyl Flg PSIG 236.34
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 3.120
Adiabatic Disch. Temp. F 275.04
Est Actual Disch Temp F 301.02
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 270.5
CAPACITY ACTUAL WET MMSCFD 6.11
CAPACITY ACTUAL DRY MMSCFD 6.07
TOTAL COMPRESSOR POWER HP 464.55

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 261.7 188.2
Capacity Wet/ Cylinder MMSCFD 3.49 2.62
HE Disch. Vol. Eff. % 0.00 28.50
CE Disch. Vol. Eff. % 29.45 27.67
HE Inlet Vol. Eff. % 0.00 69.75
CE Inlet Vol. Eff. % 72.06 67.72
Avg. Inlet Vol. Eff. % 36.03 68.73
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 39715 13942
Internal Gas Load - C LBF -8093 -18092
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29978 18077
Combined Rod Load - C LBF -20091 -17451
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 80.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 3.002
Adiabatic Disch. Temp. F 269.65
Est Actual Disch Temp F 294.89
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 275.7
CAPACITY ACTUAL WET MMSCFD 6.48
CAPACITY ACTUAL DRY MMSCFD 6.44
TOTAL COMPRESSOR POWER HP 474.16

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 267.1 192.5
Capacity Wet/ Cylinder MMSCFD 3.69 2.78
HE Disch. Vol. Eff. % 0.00 29.99
CE Disch. Vol. Eff. % 30.92 29.18
HE Inlet Vol. Eff. % 0.00 71.16
CE Inlet Vol. Eff. % 73.36 69.24
Avg. Inlet Vol. Eff. % 36.68 70.20
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 39492 13657
Internal Gas Load - C LBF -8153 -18036
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29943 18348
Combined Rod Load - C LBF -20143 -17823
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
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DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.265
Avg. Vol. Expon. (N) 1.273
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.973
Z Discharge 0.978
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 260.00
Inlet Press. @ Cyl Flg PSIG 256.06
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 2.893
Adiabatic Disch. Temp. F 264.46
Est Actual Disch Temp F 289.05
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 280.6
CAPACITY ACTUAL WET MMSCFD 6.85
CAPACITY ACTUAL DRY MMSCFD 6.81
TOTAL COMPRESSOR POWER HP 482.79

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 271.9 196.2
Capacity Wet/ Cylinder MMSCFD 3.90 2.95
HE Disch. Vol. Eff. % 0.00 31.47
CE Disch. Vol. Eff. % 32.37 30.68
HE Inlet Vol. Eff. % 0.00 72.48
CE Inlet Vol. Eff. % 74.56 70.65
Avg. Inlet Vol. Eff. % 37.28 71.57
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 38767 13546
Internal Gas Load - C LBF -8213 -17780
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29909 18620
Combined Rod Load - C LBF -20722 -18196
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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)		1.266
Avg. Vol. Expon. (N)		1.274
Gas Crit. Temperature	F	-96.511
Gas Crit. Pressure	PSIA	671.383
Z Standard		0.998
Z Suction		0.972
Z Discharge		0.977
Inlet Temperature	F	120.00
Inlet Line Pressure	PSIG	270.00
Inlet Press. @ Cyl Flg	PSIG	265.91
Interstage Press. Drop	%	0.00
Disch. Press. @ Cyl Flg	PSIG	768.56
Disch. Line Pressure	PSIG	760.00
Ratio of Compression		2.791
Adiabatic Disch. Temp.	F	259.48
Est Actual Disch Temp	F	283.46
Stg. Piston Displ.	CFM	383.0
Stg. Inlet Capacity	ACFM	285.2
CAPACITY ACTUAL WET	MMSCFD	7.22
CAPACITY ACTUAL DRY	MMSCFD	7.18
TOTAL COMPRESSOR POWER	HP	490.48

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	276.3	199.6
Capacity Wet/ Cylinder	MMSCFD	4.11	3.11
HE Disch. Vol. Eff.	%	0.00	32.93
CE Disch. Vol. Eff.	%	33.82	32.16
HE Inlet Vol. Eff.	%	0.00	73.72
CE Inlet Vol. Eff.	%	75.70	71.98
Avg. Inlet Vol. Eff.	%	37.85	72.85
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	38046	13264
Internal Gas Load - C	LBF	-8274	-17526
MACGL	LBF	44275	44275
Combined Rod Load - T	LBF	29874	18891
Combined Rod Load - C	LBF	-21042	-18568
MACCRL	LBF	38500	38500
Recip. Weight @ XHD Pin	LB	337.0	337.0
Reversal @ XHD Pin	DEG	85.0	165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.267
Avg. Vol. Expon. (N) 1.275
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.971
Z Discharge 0.976
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 280.00
Inlet Press. @ Cyl Flg PSIG 275.77
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 2.697
Adiabatic Disch. Temp. F 254.67
Est Actual Disch Temp F 278.10
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 289.5
CAPACITY ACTUAL WET MMSCFD 7.60
CAPACITY ACTUAL DRY MMSCFD 7.55
TOTAL COMPRESSOR POWER HP 497.29

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 280.1 202.6
Capacity Wet/ Cylinder MMSCFD 4.32 3.28
HE Disch. Vol. Eff. % 0.00 34.39
CE Disch. Vol. Eff. % 35.25 33.63
HE Inlet Vol. Eff. % 0.00 74.88
CE Inlet Vol. Eff. % 76.76 73.23
Avg. Inlet Vol. Eff. % 38.38 74.05
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 37786 12982
Internal Gas Load - C LBF -8335 -17435
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29839 19164
Combined Rod Load - C LBF -21094 -18941
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.276
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.970
Z Discharge 0.974
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 290.00
Inlet Press. @ Cyl Flg PSIG 285.62
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 2.608
Adiabatic Disch. Temp. F 250.04
Est Actual Disch Temp F 272.96
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 293.6
CAPACITY ACTUAL WET MMSCFD 7.97
CAPACITY ACTUAL DRY MMSCFD 7.93
TOTAL COMPRESSOR POWER HP 503.24

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 283.5 205.1
Capacity Wet/ Cylinder MMSCFD 4.53 3.45
HE Disch. Vol. Eff. % 0.00 35.83
CE Disch. Vol. Eff. % 36.68 35.09
HE Inlet Vol. Eff. % 0.00 75.97
CE Inlet Vol. Eff. % 77.76 74.40
Avg. Inlet Vol. Eff. % 38.88 75.18
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 37071 12860
Internal Gas Load - C LBF -8397 -17184
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29804 19445
Combined Rod Load - C LBF -21360 -19313
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 165.0

D-R Size Version
6.5.16.727

PACKAGER:
LOCATION:
JOB/REF:

DRESSER-RAND
A Siemens Business

DESIGN POINT

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

ATM PRESS (PSIA) 14.6960
LUBRICATED
DRIVER DATA
TYPE Engine
MANUF Waukesha
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) 1.268
Avg. Vol. Expon. (N) 1.277
Gas Crit. Temperature F -96.511
Gas Crit. Pressure PSIA 671.383
Z Standard 0.998
Z Suction 0.969
Z Discharge 0.973
Inlet Temperature F 120.00
Inlet Line Pressure PSIG 300.00
Inlet Press. @ Cyl Flg PSIG 295.48
Interstage Press. Drop % 0.00
Disch. Press. @ Cyl Flg PSIG 768.56
Disch. Line Pressure PSIG 760.00
Ratio of Compression 2.525
Adiabatic Disch. Temp. F 245.56
Est Actual Disch Temp F 268.01
Stg. Piston Displ. CFM 383.0
Stg. Inlet Capacity ACFM 297.4
CAPACITY ACTUAL WET MMSCFD 8.35
CAPACITY ACTUAL DRY MMSCFD 8.30
TOTAL COMPRESSOR POWER HP 508.37

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 286.4 207.3
Capacity Wet/ Cylinder MMSCFD 4.74 3.61
HE Disch. Vol. Eff. % 0.00 37.27
CE Disch. Vol. Eff. % 38.09 36.55
HE Inlet Vol. Eff. % 0.00 77.00
CE Inlet Vol. Eff. % 78.70 75.51
Avg. Inlet Vol. Eff. % 39.35 76.25
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 36358 12581
Internal Gas Load - C LBF -8459 -16934
MACGL LBF 44275 44275
Combined Rod Load - T LBF 29769 19725
Combined Rod Load - C LBF -21800 -19584
MACCRL LBF 38500 38500
Recip. Weight @ XHD Pin LB 337.0 337.0
Reversal @ XHD Pin DEG 85.0 160.0