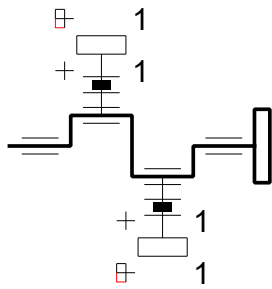


Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1848 BHP
Crankshaft fatigue safety idle/normal	1.9/2.9

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Materials pursuant to PUC
Section 583, GO 66-D, and
D.17-09-023

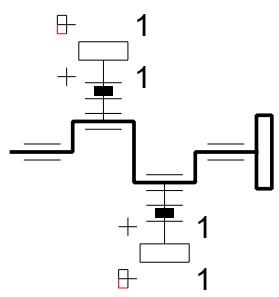
Process			1
Stage			1
Gas composition			Service A
Molar mass	kg/kmol		16.93
Temperature	°F		55.00
Pressure ratio			3.05
Temperature adiabatic	°F		223.15
Temperature predicted	°F		214.80
Required capacity			
Rated capacity			
Cylinder diameter	in		12.205
Cylinder clearance average	%		37.17
Diaphragm cylinder			
Valve model			197XP
Valve lift SV/DV	in		0.059/0.059
Number of valves			1
Valve size factor q HE/CE SV	%		5.9/5.1
Valve size factor q HE/CE DV	%		4.4/3.9
Rod # ; Stage			1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-90973	-90973
Combined rod load	lbs	-48571	-48571
Calculated gas rod load PSV / Δp	lbs	-106064	-106064
Combined rod load PSV / Δp	lbs	-55369	-55369



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1854 BHP
Crankshaft fatigue safety idle/normal	1.9/2.9

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Materials pursuant to PUC
Section 583, GO 66-D, and
D.17-09-023

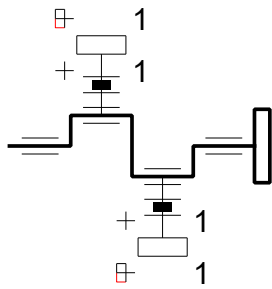
Process		1	
Stage		1	
Gas composition		Service B	
Molar mass	kg/kmol	16.76	
Temperature	°F	55.00	
Pressure ratio		3.05	
Temperature adiabatic	°F	224.16	
Temperature predicted	°F	215.68	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	37.17	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.8/5.1	
Valve size factor q HE/CE DV	%	4.4/3.8	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-90869	-90869
Combined rod load	lbs	-48468	-48468
Calculated gas rod load PSV / Δp	lbs	-105976	-105976
Combined rod load PSV / Δp	lbs	-55697	-55697



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1829 BHP
Crankshaft fatigue safety idle/normal	1.9/2.9

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D.17-09-023

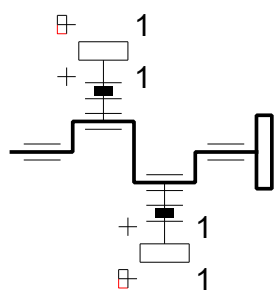
Process		1	
Stage		1	
Gas composition		Service C	
Molar mass	kg/kmol	17.68	
Temperature	°F	55.00	
Pressure ratio		3.06	
Temperature adiabatic	°F	220.18	
Temperature predicted	°F	212.23	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	37.17	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	6.2/5.4	
Valve size factor q HE/CE DV	%	4.7/4.1	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-91163	-91163
Combined rod load	lbs	-47980	-47980
Calculated gas rod load PSV / Δp	lbs	-106159	-106159
Combined rod load PSV / Δp	lbs	-55331	-55331



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1848 BHP
Crankshaft fatigue safety idle/normal	1.9/2.9

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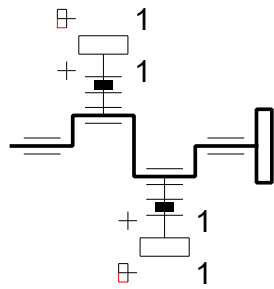
Process		1
Stage		1
Gas composition		Service D
Molar mass	kg/kmol	16.93
Temperature	°F	55.00
Pressure ratio		3.05
Temperature adiabatic	°F	223.17
Temperature predicted	°F	214.81
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	37.17
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	5.9/5.1
Valve size factor q HE/CE DV	%	4.4/3.9
Rod # ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658 105658
Calculated gas rod load	lbs	-90972 -90972
Combined rod load	lbs	-48571 -48571
Calculated gas rod load PSV / Δp	lbs	-106063 -106063
Combined rod load PSV / Δp	lbs	-55368 -55368



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1854 BHP
Crankshaft fatigue safety idle/normal	1.9/2.9

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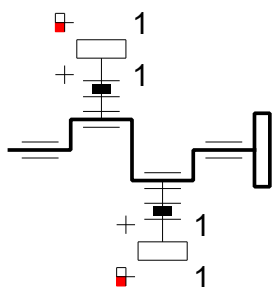
Process		1	
Stage		1	
Gas composition		Service E	
Molar mass	kg/kmol	16.76	
Temperature	°F	55.00	
Pressure ratio		3.05	
Temperature adiabatic	°F	224.16	
Temperature predicted	°F	215.68	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	37.17	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.8/5.1	
Valve size factor q HE/CE DV	%	4.4/3.8	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-90869	-90869
Combined rod load	lbs	-48468	-48468
Calculated gas rod load PSV / Δp	lbs	-105976	-105976
Combined rod load PSV / Δp	lbs	-55697	-55697



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1830 BHP
Crankshaft fatigue safety idle/normal	1.9/2.9

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D.17-09-023

Process		1	
Stage		1	
Gas composition		Service F	
Molar mass	kg/kmol	17.63	
Temperature	°F	55.00	
Pressure ratio		3.06	
Temperature adiabatic	°F	220.40	
Temperature predicted	°F	212.42	
PSV set pressure	psi(g)	1140.00	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	37.17	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	6.1/5.3	
Valve size factor q HE/CE DV	%	4.7/4.1	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-91135	-91135
Combined rod load	lbs	-48040	-48040
Calculated gas rod load PSV / Δp	lbs	-106135	-106135
Combined rod load PSV / Δp	lbs	-55409	-55409



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1862 BHP
Crankshaft fatigue safety idle/normal	1.9/2.8

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D.17-09-023

Process		1

Stage 1

Gas composition Service A

Molar mass kg/kmol 16.93

Temperature °F 80.01

Pressure ratio 2.23

Temperature adiabatic °F 201.88

Temperature predicted °F 195.26

PSV set pressure psi(g) 1140.00

Required capacity

Rated capacity

Cylinder diameter in 12.205

Cylinder clearance average % 57.86

Diaphragm cylinder

Valve model 197XP

Valve lift SV/DV in 0.059/0.059

Number of valves 1

Valve size factor q HE/CE SV % 5.6/4.9

Valve size factor q HE/CE DV % 4.6/4.0

Rod # ; Stage 1 ; 1 2 ; 1

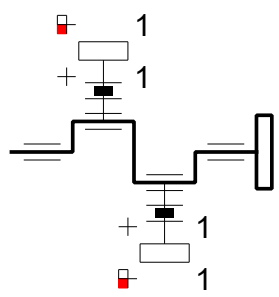
Max. all. - C,T - API lbs 105658 105658

Calculated gas rod load lbs -77229 -77229

Combined rod load lbs -48475 -48475

Calculated gas rod load PSV / Δp lbs -90455 -90455

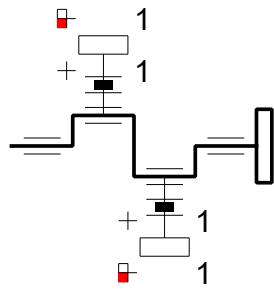
Combined rod load PSV / Δp lbs 45864 45864



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1867 BHP
Crankshaft fatigue safety idle/normal	1.9/2.8

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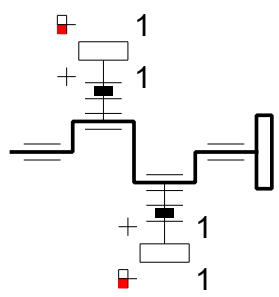
Process		1	
Stage		1	
Gas composition		Service B	
Molar mass	kg/kmol	16.76	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	202.41	
Temperature predicted	°F	195.79	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	57.86	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.6/4.9	
Valve size factor q HE/CE DV	%	4.6/4.0	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-77174	-77174
Combined rod load	lbs	-48469	-48469
Calculated gas rod load PSV / Δp	lbs	-90395	-90395
Combined rod load PSV / Δp	lbs	45886	45886



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1849 BHP
Crankshaft fatigue safety idle/normal	1.9/2.8

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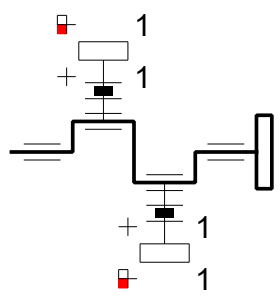
Process		1	
Stage		1	
Gas composition		Service C	
Molar mass	kg/kmol	17.68	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	200.28	
Temperature predicted	°F	193.69	
PSV set pressure	psi(g)	1140.00	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	57.86	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.9/5.2	
Valve size factor q HE/CE DV	%	4.9/4.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-77418	-77418
Combined rod load	lbs	-48250	-48250
Calculated gas rod load PSV / Δp	lbs	-90439	-90439
Combined rod load PSV / Δp	lbs	45382	45382



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1862 BHP
Crankshaft fatigue safety idle/normal	1.9/2.8

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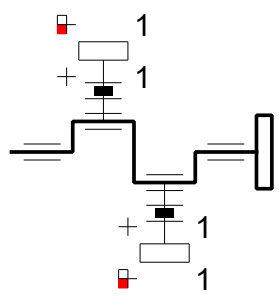
Process		1	
Stage		1	
Gas composition		Service D	
Molar mass	kg/kmol	16.93	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	201.87	
Temperature predicted	°F	195.26	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	57.86	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.6/4.9	
Valve size factor q HE/CE DV	%	4.6/4.0	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-77232	-77232
Combined rod load	lbs	-48475	-48475
Calculated gas rod load PSV / Δp	lbs	-90455	-90455
Combined rod load PSV / Δp	lbs	45865	45865



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1867 BHP
Crankshaft fatigue safety idle/normal	1.9/2.8

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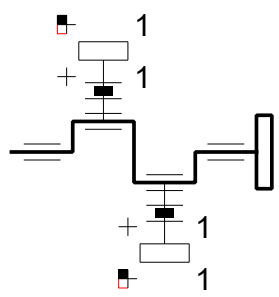
Process		1	
Stage		1	
Gas composition		Service E	
Molar mass	kg/kmol	16.76	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	202.41	
Temperature predicted	°F	195.79	
PSV set pressure	psi(g)	1140.00	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	57.86	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.6/4.9	
Valve size factor q HE/CE DV	%	4.6/4.0	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-77174	-77174
Combined rod load	lbs	-48469	-48469
Calculated gas rod load PSV / Δp	lbs	-90395	-90395
Combined rod load PSV / Δp	lbs	45886	45886



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1850 BHP
Crankshaft fatigue safety idle/normal	1.9/2.8

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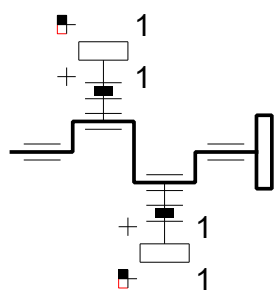
Process		1	
Stage		1	
Gas composition		Service F	
Molar mass	kg/kmol	17.63	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	200.40	
Temperature predicted	°F	193.80	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	57.86	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	5.9/5.1	
Valve size factor q HE/CE DV	%	4.8/4.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	-77391	-77391
Combined rod load	lbs	-48245	-48245
Calculated gas rod load PSV / Δp	lbs	-90422	-90422
Combined rod load PSV / Δp	lbs	45382	45382



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1756 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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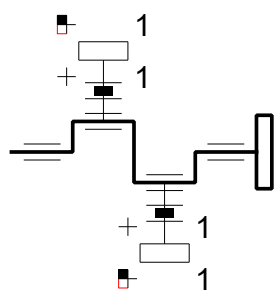
Process		1	
Stage		1	
Gas composition		Service A	
Molar mass	kg/kmol	16.93	
Temperature	°F	55.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	112.48	
Temperature predicted	°F	106.76	
PSV set pressure	psi(g)	1140.00	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.5	
Valve size factor q HE/CE DV	%	/4.9	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	45015	45015
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	61572	61572
Combined rod load PSV / Δp	lbs	65212	65212



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1746 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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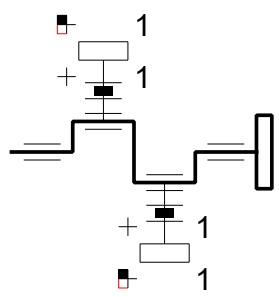
Process		1	
Stage		1	
Gas composition		Service B	
Molar mass	kg/kmol	16.76	
Temperature	°F	55.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	112.66	
Temperature predicted	°F	106.93	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.4	
Valve size factor q HE/CE DV	%	/4.8	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	44744	44744
Combined rod load	lbs	64987	64987
Calculated gas rod load PSV / Δp	lbs	61279	61279
Combined rod load PSV / Δp	lbs	65252	65252



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1800 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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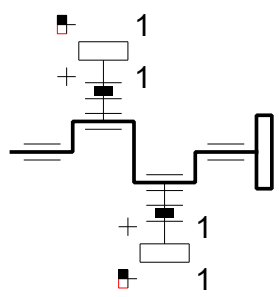
Process		1	
Stage		1	
Gas composition		Service C	
Molar mass	kg/kmol	17.68	
Temperature	°F	55.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	112.00	
Temperature predicted	°F	106.29	
PSV set pressure	psi(g)	1140.00	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.8	
Valve size factor q HE/CE DV	%	/5.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	46124	46124
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	62773	62773
Combined rod load PSV / Δp	lbs	65815	65815



Rotational speed 1200.0 1/min
 Piston speed 1181.10 ft/min
 Stroke 5.906 in
 Rod diameter 3.150 in
 Power @ compressor shaft 1756 BHP
 Crankshaft fatigue safety idle/normal 1.8/1.7

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 D.17-09-023

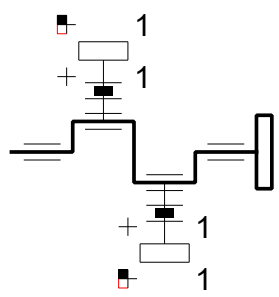
Process			1
Stage			1
Gas composition			Service D
Molar mass	kg/kmol		16.93
Temperature	°F		55.00
Pressure ratio			1.39
Temperature adiabatic	°F		112.48
Temperature predicted	°F		106.76
Required capacity			
Rated capacity			
Cylinder diameter	in		12.205
Cylinder clearance average	%		33.72
Diaphragm cylinder			
Valve model			197XP
Valve lift SV/DV	in		0.059/0.059
Number of valves			1
Valve size factor q HE/CE SV	%		/5.5
Valve size factor q HE/CE DV	%		/4.9
Rod # ; Stage			1 ; 1 2 ; 1
Max. all. - C,T - API	lbs		105658 105658
Calculated gas rod load	lbs		45013 45013
Combined rod load	lbs		64988 64988
Calculated gas rod load PSV / Δp	lbs		61571 61571
Combined rod load PSV / Δp	lbs		65213 65213



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1746 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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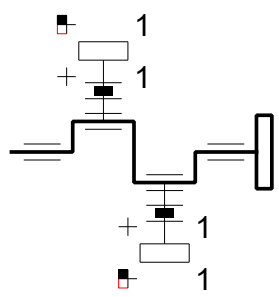
Process		1	
Stage		1	
Gas composition		Service E	
Molar mass	kg/kmol	16.76	
Temperature	°F	55.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	112.66	
Temperature predicted	°F	106.93	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.4	
Valve size factor q HE/CE DV	%	/4.8	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	44744	44744
Combined rod load	lbs	64987	64987
Calculated gas rod load PSV / Δp	lbs	61279	61279
Combined rod load PSV / Δp	lbs	65252	65252



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1797 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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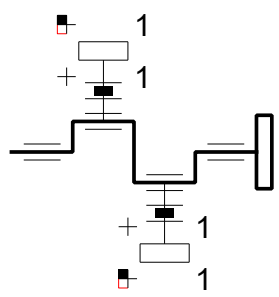
Process		1	
Stage		1	
Gas composition		Service F	
Molar mass	kg/kmol	17.63	
Temperature	°F	55.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	112.04	
Temperature predicted	°F	106.32	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.7	
Valve size factor q HE/CE DV	%	/5.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	46048	46048
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	62690	62690
Combined rod load PSV / Δp	lbs	65733	65733



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1701 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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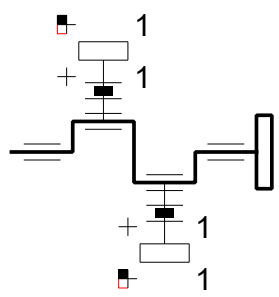
Process		1	
Stage		1	
Gas composition		Service A	
Molar mass	kg/kmol	16.93	
Temperature	°F	80.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	136.39	
Temperature predicted	°F	130.43	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.1	
Valve size factor q HE/CE DV	%	/4.6	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	43836	43836
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	60298	60298
Combined rod load PSV / Δp	lbs	64988	64988



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1691 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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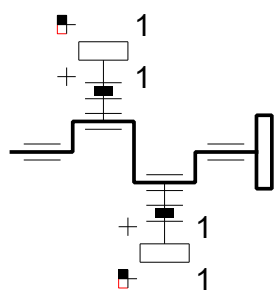
Process		1	
Stage		1	
Gas composition		Service B	
Molar mass	kg/kmol	16.76	
Temperature	°F	80.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	136.57	
Temperature predicted	°F	130.60	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.0	
Valve size factor q HE/CE DV	%	/4.6	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	43591	43591
Combined rod load	lbs	64987	64987
Calculated gas rod load PSV / Δp	lbs	60034	60034
Combined rod load PSV / Δp	lbs	64987	64987



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1741 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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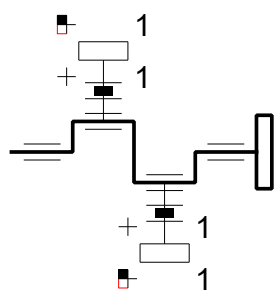
Process		1	
Stage		1	
Gas composition		Service C	
Molar mass	kg/kmol	17.68	
Temperature	°F	80.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	135.88	
Temperature predicted	°F	129.92	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.4	
Valve size factor q HE/CE DV	%	/4.9	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	44844	44844
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	61384	61384
Combined rod load PSV / Δp	lbs	64988	64988



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1701 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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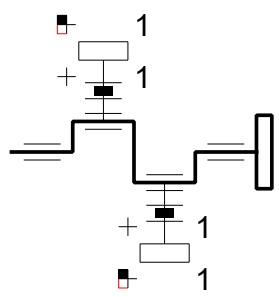
Process			1
Stage			1
Gas composition			Service D
Molar mass	kg/kmol		16.93
Temperature	°F		80.00
Pressure ratio			1.39
Temperature adiabatic	°F		136.39
Temperature predicted	°F		130.43
PSV set pressure	psi(g)		1140.00
Required capacity			
Rated capacity			
Mass flow, wet	lb/h		111330.99
Cylinder diameter	in		12.205
Cylinder clearance average	%		33.72
Diaphragm cylinder			
Valve model			197XP
Valve lift SV/DV	in		0.059/0.059
Number of valves			1
Valve size factor q HE/CE SV	%		/5.1
Valve size factor q HE/CE DV	%		/4.6
Rod # ; Stage			1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	43835	43835
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	60297	60297
Combined rod load PSV / Δp	lbs	64988	64988



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1691 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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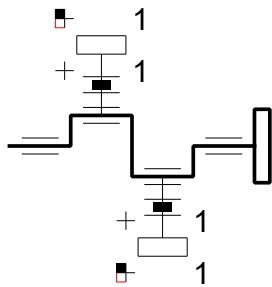
Process		1	
Stage		1	
Gas composition		Service E	
Molar mass	kg/kmol	16.76	
Temperature	°F	80.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	136.57	
Temperature predicted	°F	130.60	
PSV set pressure	psi(g)	1140.00	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.0	
Valve size factor q HE/CE DV	%	/4.6	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	43591	43591
Combined rod load	lbs	64987	64987
Calculated gas rod load PSV / Δp	lbs	60034	60034
Combined rod load PSV / Δp	lbs	64987	64987



Rotational speed	1200.0 1/min
Piston speed	1181.10 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1738 BHP
Crankshaft fatigue safety idle/normal	1.8/1.7

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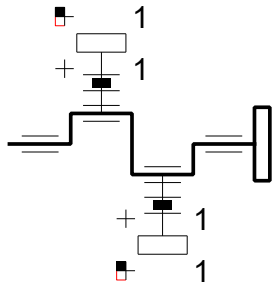
Process		1	
Stage		1	
Gas composition		Service F	
Molar mass	kg/kmol	17.63	
Temperature	°F	80.00	
Pressure ratio		1.39	
Temperature adiabatic	°F	135.92	
Temperature predicted	°F	129.96	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/5.3	
Valve size factor q HE/CE DV	%	/4.9	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	44775	44775
Combined rod load	lbs	64988	64988
Calculated gas rod load PSV / Δp	lbs	61310	61310
Combined rod load PSV / Δp	lbs	64988	64988



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	815 BHP
Crankshaft fatigue safety idle/normal	3.2/2.6

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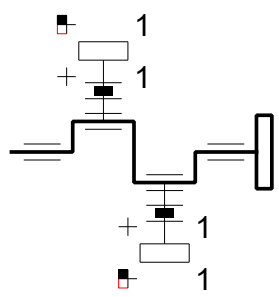
Process		1	
Stage		1	
Gas composition		Service A	
Molar mass	kg/kmol	16.93	
Temperature	°F	55.00	
Pressure ratio		3.05	
Temperature adiabatic	°F	223.15	
Temperature predicted	°F	214.80	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/2.9	
Valve size factor q HE/CE DV	%	/2.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	77046	77046
Combined rod load	lbs	57063	57063
Calculated gas rod load PSV / Δp	lbs	91901	91901
Combined rod load PSV / Δp	lbs	69392	69392



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	816 BHP
Crankshaft fatigue safety idle/normal	3.2/2.6

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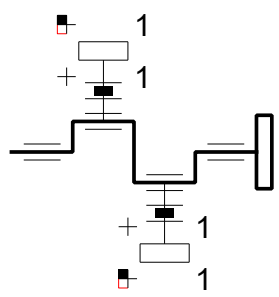
Process		1
Stage		1
Gas composition		Service B
Molar mass	kg/kmol	16.76
Temperature	°F	55.00
Pressure ratio		3.05
Temperature adiabatic	°F	224.16
Temperature predicted	°F	215.68
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	33.72
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	/2.8
Valve size factor q HE/CE DV	%	/2.1
Rod # ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658 105658
Calculated gas rod load	lbs	77087 77087
Combined rod load	lbs	57219 57219
Calculated gas rod load PSV / Δp	lbs	91849 91849
Combined rod load PSV / Δp	lbs	69340 69340



Rotational speed 900.0 1/min
 Piston speed 885.83 ft/min
 Stroke 5.906 in
 Rod diameter 3.150 in
 Power @ compressor shaft 812 BHP
 Crankshaft fatigue safety idle/normal 3.2/2.6

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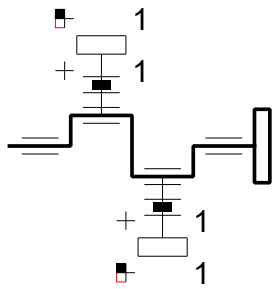
Process		1
Stage		1
Gas composition		Service C
Molar mass	kg/kmol	17.68
Temperature	°F	55.00
Pressure ratio		3.06
Temperature adiabatic	°F	220.18
Temperature predicted	°F	212.23
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	33.72
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	/3.0
Valve size factor q HE/CE DV	%	/2.3
Rod # ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658 105658
Calculated gas rod load	lbs	77282 77282
Combined rod load	lbs	57055 57055
Calculated gas rod load PSV / Δp	lbs	92001 92001
Combined rod load PSV / Δp	lbs	69199 69199



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	815 BHP
Crankshaft fatigue safety idle/normal	3.2/2.6

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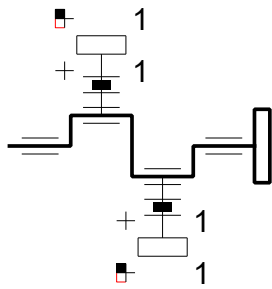
Process		1
Stage		1
Gas composition		Service D
Molar mass	kg/kmol	16.93
Temperature	°F	55.00
Pressure ratio		3.05
Temperature adiabatic	°F	223.17
Temperature predicted	°F	214.81
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	33.72
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	/2.9
Valve size factor q HE/CE DV	%	/2.2
Rod # ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658 105658
Calculated gas rod load	lbs	77046 77046
Combined rod load	lbs	57066 57066
Calculated gas rod load PSV / Δp	lbs	91900 91900
Combined rod load PSV / Δp	lbs	69392 69392



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	816 BHP
Crankshaft fatigue safety idle/normal	3.2/2.6

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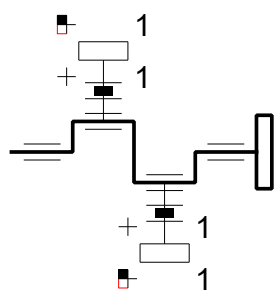
Process		1	
Stage		1	
Gas composition		Service E	
Molar mass	kg/kmol	16.76	
Temperature	°F	55.00	
Pressure ratio		3.05	
Temperature adiabatic	°F	224.16	
Temperature predicted	°F	215.68	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/2.8	
Valve size factor q HE/CE DV	%	/2.1	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	77087	77087
Combined rod load	lbs	57219	57219
Calculated gas rod load PSV / Δp	lbs	91849	91849
Combined rod load PSV / Δp	lbs	69340	69340



Rotational speed 900.0 1/min
 Piston speed 885.83 ft/min
 Stroke 5.906 in
 Rod diameter 3.150 in
 Power @ compressor shaft 813 BHP
 Crankshaft fatigue safety idle/normal 3.2/2.6

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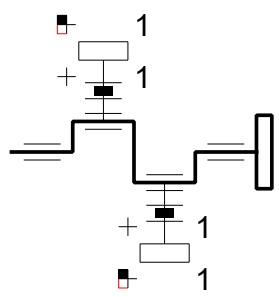
Process		1
Stage		1
Gas composition		Service F
Molar mass	kg/kmol	17.63
Temperature	°F	55.00
Pressure ratio		3.06
Temperature adiabatic	°F	220.40
Temperature predicted	°F	212.42
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	33.72
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	/3.0
Valve size factor q HE/CE DV	%	/2.3
Rod # ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658 105658
Calculated gas rod load	lbs	77266 77266
Combined rod load	lbs	57039 57039
Calculated gas rod load PSV / Δp	lbs	91987 91987
Combined rod load PSV / Δp	lbs	69185 69185



Rotational speed 900.0 1/min
 Piston speed 885.83 ft/min
 Stroke 5.906 in
 Rod diameter 3.150 in
 Power @ compressor shaft 1037 BHP
 Crankshaft fatigue safety idle/normal 3.2/2.4

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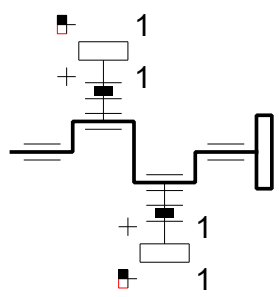
Process		1
Stage		1
Gas composition		Service A
Molar mass	kg/kmol	16.93
Temperature	°F	80.01
Pressure ratio		2.23
Temperature adiabatic	°F	201.88
Temperature predicted	°F	195.26
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	33.72
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	/2.8
Valve size factor q HE/CE DV	%	/2.3
Rod # ; Stage		1 ; 1
Max. all. - C,T - API	lbs	105658
Calculated gas rod load	lbs	65074
Combined rod load	lbs	53627
Calculated gas rod load PSV / Δp	lbs	80090
Combined rod load PSV / Δp	lbs	64726



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1036 BHP
Crankshaft fatigue safety idle/normal	3.2/2.4

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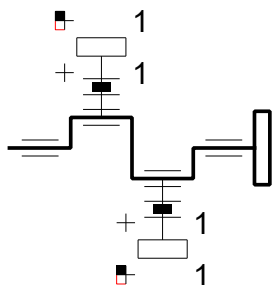
Process		1	
Stage		1	
Gas composition		Service B	
Molar mass	kg/kmol	16.76	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	202.41	
Temperature predicted	°F	195.79	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/2.7	
Valve size factor q HE/CE DV	%	/2.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	64985	64985
Combined rod load	lbs	53538	53538
Calculated gas rod load PSV / Δp	lbs	80004	80004
Combined rod load PSV / Δp	lbs	64639	64639



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1040 BHP
Crankshaft fatigue safety idle/normal	3.2/2.4

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Materials pursuant to PUC
Section 583, GO 66-D, and
D.17-09-023

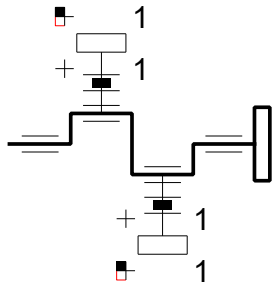
Process		1
Stage		1
Gas composition		Service C
Molar mass	kg/kmol	17.68
Temperature	°F	80.00
Pressure ratio		2.23
Temperature adiabatic	°F	200.28
Temperature predicted	°F	193.69
Required capacity		
Rated capacity		
Cylinder diameter	in	12.205
Cylinder clearance average	%	33.72
Diaphragm cylinder		
Valve model		197XP
Valve lift SV/DV	in	0.059/0.059
Number of valves		1
Valve size factor q HE/CE SV	%	/2.9
Valve size factor q HE/CE DV	%	/2.4
Rod # ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105658 105658
Calculated gas rod load	lbs	65360 65360
Combined rod load	lbs	53514 53514
Calculated gas rod load PSV / Δp	lbs	80337 80337
Combined rod load PSV / Δp	lbs	64680 64680



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1037 BHP
Crankshaft fatigue safety idle/normal	3.2/2.4

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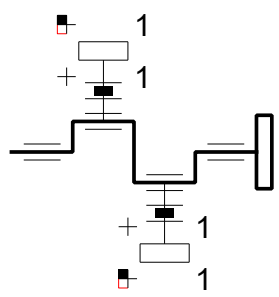
Process		1	
Stage		1	
Gas composition		Service D	
Molar mass	kg/kmol	16.93	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	201.87	
Temperature predicted	°F	195.26	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/2.8	
Valve size factor q HE/CE DV	%	/2.3	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	65074	65074
Combined rod load	lbs	53627	53627
Calculated gas rod load PSV / Δp	lbs	80090	80090
Combined rod load PSV / Δp	lbs	64726	64726



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1036 BHP
Crankshaft fatigue safety idle/normal	3.2/2.4

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Process		1	
Stage		1	
Gas composition		Service E	
Molar mass	kg/kmol	16.76	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	202.41	
Temperature predicted	°F	195.79	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/2.7	
Valve size factor q HE/CE DV	%	/2.2	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	64985	64985
Combined rod load	lbs	53538	53538
Calculated gas rod load PSV / Δp	lbs	80004	80004
Combined rod load PSV / Δp	lbs	64639	64639



Rotational speed	900.0 1/min
Piston speed	885.83 ft/min
Stroke	5.906 in
Rod diameter	3.150 in
Power @ compressor shaft	1040 BHP
Crankshaft fatigue safety idle/normal	3.2/2.4

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Process		1	
Stage		1	
Gas composition		Service F	
Molar mass	kg/kmol	17.63	
Temperature	°F	80.00	
Pressure ratio		2.23	
Temperature adiabatic	°F	200.40	
Temperature predicted	°F	193.80	
Required capacity			
Rated capacity			
Cylinder diameter	in	12.205	
Cylinder clearance average	%	33.72	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.059/0.059	
Number of valves		1	
Valve size factor q HE/CE SV	%	/2.9	
Valve size factor q HE/CE DV	%	/2.4	
Rod # ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105658	105658
Calculated gas rod load	lbs	65335	65335
Combined rod load	lbs	53552	53552
Calculated gas rod load PSV / Δp	lbs	80313	80313
Combined rod load PSV / Δp	lbs	64733	64733