

Rotational speed	1200.0 1/min
Piston speed	1181 ft/min
Stroke	5.9055 in
Rod diameter	3.1496 in
Power @ compressor shaft	2407 BHP

Process	1
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Stage	1
Gas composition	C
Molar mass	kg/kmol 17.69

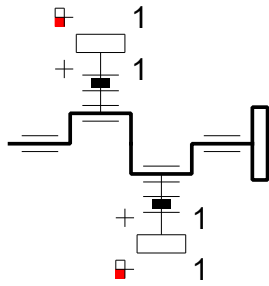
Temperature	°F	55
Pressure ratio		3.02

End temperature adiabatic	°F	220
End temperature predicted	°F	210

Required capacity

Rated capacity

Cylinder diameter	in	13.4646
Cylinder clearance average	%	36.13
Diaphragm cylinder		
Valve model		211XP
Valve lift SV/DV	in	0.0689/0.0689
Number of valves		1
Valve size factor q HE/CE SV	%	6.6/5.9
Valve size factor q HE/CE DV	%	5.1/4.5
Rod ; Stage		1 ; 1 2 ; 1
Max. all. - C,T - API	lbs	105660 105660
Calculated gas rod load	lbs	-110865 -110865
Combined rod load	lbs	-71994 -71994
Calculated gas rod load PSV / Δp	lbs	-129503 -129503
Combined rod load PSV / Δp	lbs	-82831 -82831



Rotational speed	1200.0 1/min
Piston speed	1181 ft/min
Stroke	5.91 in
Rod diameter	3.15 in
Power @ compressor shaft	2199 BHP

Process	1
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Stage	1
Gas composition	C
Molar mass	kg/kmol 17.69

Temperature	°F	80
Pressure ratio		2.21

End temperature adiabatic	°F	200
End temperature predicted	°F	193

Required capacity

Rated capacity

Cylinder diameter	in	12.60	
Cylinder clearance average	%	54.29	
Diaphragm cylinder			
Valve model		197XP	
Valve lift SV/DV	in	0.06/0.06	
Number of valves		1	
Valve size factor q HE/CE SV	%	6.7/5.9	
Valve size factor q HE/CE DV	%	5.5/4.9	
Rod ; Stage		1 ; 1	2 ; 1
Max. all. - C,T - API	lbs	105660	105660
Calculated gas rod load	lbs	-83274	-83274
Combined rod load	lbs	-53732	-53732
Calculated gas rod load PSV / Δp	lbs	-97378	-97378
Combined rod load PSV / Δp	lbs	52163	52163