

Reciprocating Compressor Optimum Design and Manufacturing with respect to Performance, Reliability and Cost

A. Almasi

Abstract—Reciprocating compressors are flexible to handle wide capacity and condition swings, offer a very efficient method of compressing almost any gas mixture in wide range of pressure, can generate high head independent of density, and have numerous applications and wide power ratings. These make them vital component in various units of industrial plants. In this paper optimum reciprocating compressor configuration regarding inter-stage pressures, low suction pressure, non-lubricated cylinder, speed of machine, capacity control system, compressor valve, lubrication system, piston rod coating, cylinder liner material, bearing device, pressure drops, rod load, pin reversal, discharge temperature, cylinder coolant system, performance, flow, coupling, special tools, condition monitoring (including vibration, thermal and rod drop monitoring), commercial points, delivery and acoustic conditions are presented.

Keywords—Design, Optimum, Reciprocating compressor.

I. INTRODUCTION

RECIPROCATING compressors are the most common type of compressors found in industrial applications [1]-[4]. **Worldwide installed reciprocating compressor horsepower is approximately three times that of centrifugal compressors** and maintenance costs of reciprocating compressors are approximately three and half times greater than those for centrifugal compressors [3]. Design and manufacturing of a reciprocating compressor shall be involved optimization process with respect to full array of compressor data. Otherwise, it may end up with equipment that may not be suitable over the full operating cases, reliability level, commercial terms or power requirement for which the manufacturer and client expect.

II. MACHINE DESIGN

A. Inter-stage Design Pressures

Discharge pressure of each stage is normally protected by pressure relief valves, high pressure discharge switches are seldom seen [2]. Optimum inter-stage pressures can be obtained by formulation and optimization of performance and investment for compressor and inter-stage facilities. **Inter-**

stage pressures based on just compressor without respect to inter-stage facilities, are not justified. Inter-stage pressures are going to increase during part load operation and high suction pressure. If not tolerate-able, additional clearance pocket on first stage cylinder and part load operation inhabitation by the controlling logic, can be studied. Generally it is compromise to fix PRV-Pressure Relief Valve set points (and inter-stage facility design pressure accordingly) based on worst case of part load operation and process variations (such as high suction pressure). For common design cases (50% and 75% part load steps and around 5%-7% suction pressure variation), PRV pressure set points will be around 10-15% higher due to part load operation and suction pressure variations.

B. Low Suction Pressure with Full Flow

Sometimes, due to process requirements, reciprocating compressors shall be capable to operate at lowest suction pressure and full design flow at normal discharge pressure. It can have strong effect on electric motor sizing as well as compressor sizing and machine frame rating (for example more than 35% electric motor power increase for 20% suction below normal). It is absolutely necessary to respect this condition for motor and compressor sizing. It is optimum to respect them in basic design and design stage to avoid costly changes.

C. Maximum Speed Lubricated Cylinder

Reliable machine is involved low speed (around 350 RPM) and lubricated cylinder. Optimum piston speed is 3-4.4 m/s. Optimum configuration: horizontal cylinder(s), discharge nozzle on the bottom side. For small compressor selection, it may be necessary to deviate lubricated cylinder or low speed. **Optimum option is lubricated cylinder with available lowest speed machines.** Probably less than 20% of all reciprocating compressors are designed for non-lubricated operation just because of process demands (oxygen, high pressure air, down stream facilities sensitive to oil such as some catalysts, etc) [2].

D. Unloader and Capacity Control System

Step-less capacity control system uses finger type unloader, is pneumatically actuated, and unloads the suction valve for only a portion of compression cycle to achieve adjusted

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Emilie Sanchez



Reciprocating Compressor Optimum Design And Manufacturing:

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Catalytic Ammonia

Synthesis J.R. Jennings,2013-06-29 The phenomenon of catalysis is found in many homogeneous and heterogeneous systems undergoing chemical change where it effects the rates of approach to the equilibrium state in processes as diverse as those found in the stars the earth s mantle living organisms and the various chemistries utilized by industry The economies and the living standards of both developed and developing countries depend to varying degrees upon the efficacy of their chemical industries Con sequently this century has seen a wide exploration and expansion of catalytic chemistry together with an intensive investigation of specific essential processes like those contributing to life supporting agricultures Prime among the latter must surely be the fixation of atmospheric nitrogen by catalytic hydrogenation to anhydrous ammonia still the preferred synthetic precursor of the nitrogenous components of fertilizers In each decade contemporary concepts and techniques have been used to further the understanding as yet incomplete of the catalyst the adsorbates the surface reactions and the technology of large scale operation The contributors to the present volume review the state of the art the science and the technology they reveal existing lacunae and suggest ways forward Around the turn of the century Sabatier s school was extending the descriptive catalytic chemistry of hydrogenation by metals to include almost all types of multiple bond The triple bond of dinitrogen which continued to be more resistant than the somewhat similar bonds in carbon monoxide and ethyne defied their efforts

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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Reciprocating Compressor Optimum Design And Manufacturing**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Reciprocating Compressor Optimum Design And Manufacturing

1. Understanding the eBook Reciprocating Compressor Optimum Design And Manufacturing
 - The Rise of Digital Reading Reciprocating Compressor Optimum Design And Manufacturing
 - Advantages of eBooks Over Traditional Books
2. Identifying Reciprocating Compressor Optimum Design And Manufacturing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Reciprocating Compressor Optimum Design And Manufacturing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reciprocating Compressor Optimum Design And Manufacturing
 - Personalized Recommendations
 - Reciprocating Compressor Optimum Design And Manufacturing User Reviews and Ratings

- Reciprocating Compressor Optimum Design And Manufacturing and Bestseller Lists
- 5. Accessing Reciprocating Compressor Optimum Design And Manufacturing Free and Paid eBooks
 - Reciprocating Compressor Optimum Design And Manufacturing Public Domain eBooks
 - Reciprocating Compressor Optimum Design And Manufacturing eBook Subscription Services
 - Reciprocating Compressor Optimum Design And Manufacturing Budget-Friendly Options
- 6. Navigating Reciprocating Compressor Optimum Design And Manufacturing eBook Formats
 - ePub, PDF, MOBI, and More
 - Reciprocating Compressor Optimum Design And Manufacturing Compatibility with Devices
 - Reciprocating Compressor Optimum Design And Manufacturing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reciprocating Compressor Optimum Design And Manufacturing
 - Highlighting and Note-Taking Reciprocating Compressor Optimum Design And Manufacturing
 - Interactive Elements Reciprocating Compressor Optimum Design And Manufacturing
- 8. Staying Engaged with Reciprocating Compressor Optimum Design And Manufacturing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reciprocating Compressor Optimum Design And Manufacturing
- 9. Balancing eBooks and Physical Books Reciprocating Compressor Optimum Design And Manufacturing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reciprocating Compressor Optimum Design And Manufacturing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Reciprocating Compressor Optimum Design And Manufacturing
 - Setting Reading Goals Reciprocating Compressor Optimum Design And Manufacturing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Reciprocating Compressor Optimum Design And Manufacturing
 - Fact-Checking eBook Content of Reciprocating Compressor Optimum Design And Manufacturing
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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