

Services, Inc.

Reciprocating Compressor Experts



Custom Compressor Cylinders



Performance Control Devices



Engineered Solutions

Performance Modeling

Compressor Components

Reapplication and Refurbishment

Compressor Valves

Used Equipment

ACI

Services, Inc.

Since 1960, ACI Services, Inc. has built its reputation via excellence in compressor performance and cylinder design. With a comprehensive portfolio of solved compressor problems, ACI is uniquely positioned to help customers achieve their compression goals through cost effective products, services, and software.

We Solve Your Compression Challenges

■ Performance Control Devices

ACI devices allow the operator to efficiently control performance. With our eRCM™ compressor modeling technology, we can quickly select single devices or combinations of devices to meet your compression requirements.

- Front-head Fixed Volume Clearance Pockets
- MultiPocket™ (Multiple Front-head Pockets)
- Over-valve Fixed Volume Clearance Pockets
- Pneumatic Actuators
- Front-head Bypass (SimPlex™/DuPlex™ Unloading Devices)
- Plug-type End Deactivators
- GAS™ Radial Valve End Deactivators
- Rotavator™ Valve End Deactivators
- VariPocket™ (Hydraulically Actuated Variable Volume Pockets)
- AutoPocket™ (Pneumatically Actuated Variable Volume Pockets)



■ Pulsation Control Devices

Pulsation dampening devices help increase flow rates, increase revenue and eliminate unnecessary wear and tear on reciprocating compressor packages.

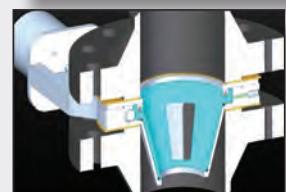
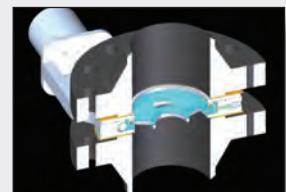
Performance Augmentation Network

- Efficiently attenuates pulsations
- Retrofits to existing systems
- Designed for reciprocating compressors and centrifugal compressor headers
- Ideal for electronic flow meter runs
- Custom engineered tuning loops and manifolds
- Fabricated with standard piping
- PulseBuster TST™ Junctions



Dynamic Variable Orifice

- Increases unit flow rates by minimizing pressure drops
- Prevents unacceptable vibrations by adjusting orifice's flow area
- Reduces discharge temperatures by lowering internal compression ratios



Tunable Side Branch Absorber

- Reduces vibration issues by adjusting side volume
- Covers a wide range of acoustic frequencies
- Designed for dynamic control via PLC



■ Research and Development



Innovation is the core of what ACI does every day. Our team of engineers is continually evaluating challenges and developing new products to improve the operation of your compression assets. We move ideas from a clean sheet of paper through commercialization, including testing in our own R&D lab. As a pioneer in the industry, we have a proven track record of delivering solutions that improve reliability and efficiency while increasing revenues.

■ Compressor Performance Software

ACI software provides unparalleled performance prediction and modeling for engineers, operators, Gas Control/Dispatch, new unit bidding, and automation. eRCM™ provides more information in a few minutes than what other programs would take hours, days or weeks to do. eRCM allows the user to create models from unit geometry, add gas thermodynamics, review complete operating ranges, tune unit performance to measured data, generate dynamic compressor performance curves, render 3D graphs, compare unit abilities at thousands of operating points, review millions of potential conditions for possible problems to prevent issues during automation implementation, and so much more.



With eRCM, you have access to advanced features and unparalleled performance.

- eRCM™ - Create robust models of reciprocating compressors
- eRCM Viewer™ - View wide range of compressor performance
- eRCM MultiServices™ - Handle multiple services on a single unit
- eRCM Unit Staging™ - Model stations with multiple units in series or parallel
- eRCM Evaluator™/eRCM PointsReport™ - Compare units and configurations

■ eRCM Express™

- Provides OEM-compatible modeling
- Predicts safe performance across unit's full operating map
- Improves capacity and reduces costs
- Models single and multi-stage units
- Calculates full rod loads and pin reversals per throw
- Provides UCP with dynamic safety limits for speed and pressure
- Simple installation, and standard Ethernet communications

■ Mechanical Field Services

ACI is a solution provider and has developed an alliance network that allows us to provide solutions using industry experts. Our team approach allows us to provide the mechanical field services and project management services from simple piston modernization projects to complex compressor rerate projects. Our expertise encompasses not only our products but also a complete understanding of compressors, auxiliary systems, and the processes in which they are operating.



■ Spare Parts Resources

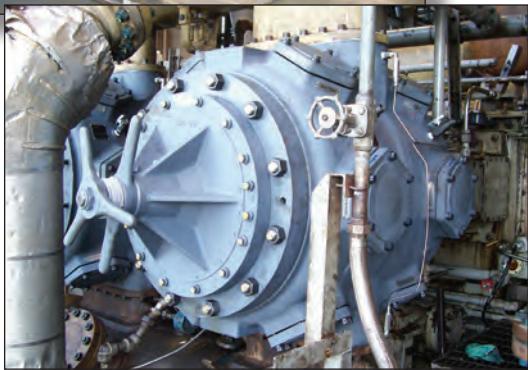
ACI is a highly recommended OEM parts distributor for Ariel and GE compressors. Moreover, ACI provides functional equivalent spare parts for all reciprocating compressors. ACI provides compressor components and complete assemblies (such as piston rods, pistons, cylinders, liners, valves, pressure packings, and unloading devices) to replace, refurbish, and/or upgrade existing equipment.



■ Custom Compressor Cylinders

Engineered to Customer Specifications

- Lined or unlined cylinder bodies
- Manufactured from application specific materials
- Air or water cooled cylinder designs
- Sour Gas Trim available
- Maintenance friendly piston and rod assemblies
- Wide range of performance control options



Engineered to Minimize Costs

- Designed around existing package
- Maintain same centerline dimensions
- Minimize capital costs

Engineered to Solve a Problem

- Designed to solve operational concerns
- Designed to use existing components



■ Valves

ACI GAS™ valves lead the industry in poppet and radial valve technology.

- Lower fuel consumption
- Lower emissions
- Higher flow rates
- Increased revenues
- Installation maintenance ease



■ Cylinder Refurbishment and Reapplication

With over 300 cumulative years of reciprocating compressor experience, ACI is your source for reapplication, revamping or upgrading existing compressor equipment. ACI can identify any design or operational problem and offer upgrade solutions.



Our specialties being:

- Valves
- Unloaders, and
- Cylinder assemblies

Additionally, ACI can connect buyers and sellers of used compression equipment via the Internet.



Visit www.CompressorConnection.com to take advantage of this vast resource of existing compression assets.

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www.ACIServicesInc.com
www.CompressorConnection.com

 **ACI** Services, Inc.