

HG24 SERIES
MODEL HG24XXX GEAR DRIVE

Rotary Screw Gas Compressors

Benefits

LeROI rotary screw gas compressors are very cost-effective for handling high volumes of gas in field gathering, vapor recovery, and other applications. The HG24 Series is suitable for applications to 350 BHP and 300 PSIG discharge pressure. Low maintenance and high reliability are inherent with rotary screws because they have few moving parts. There are no valves, rings or packing to wear out or cause loss of efficiency.

Smooth operation results from no unbalanced forces and no pressure pulsation. No foundation is required and there are no piping vibrations from pressure pulsation.

Direct coupled natural gas engine or electric motor drives are equally acceptable with the HG24XXX rotary screw. LeROI Rotary Screw Gas Compressors are available in various models covering a flow range of 20 to 15,000 MSCFD and horsepower from 10 to 900.

Performance

Brake Horsepower	350 Max.
Flow Range (MSCFD)	5,000 Max.
Inlet Pressure	20" Hg Vac. Min.* 50 PSIG Max.
Discharge Pressure	20*-300 PSIG (MAWP)
Speed Range	500/Min. 3,600/Max. RPM

* Consult Factory for use with lower vacuum inlet or discharge pressures.

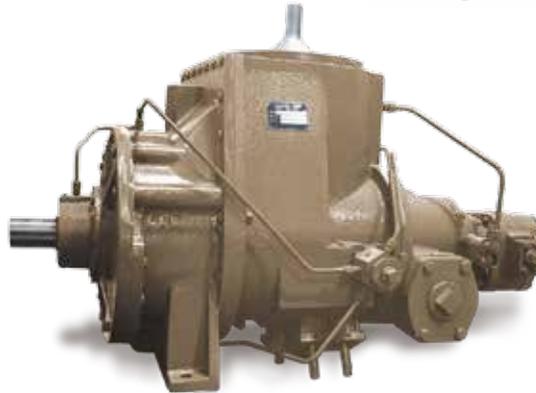
Features

Single-Stage operation from 15 PSIG to 300 PSIG maximum is possible with the HG24 Series oil-flooded compressors. Compressor packages are therefore simple, reliable and cost effective. The gas differential pressure provides oil circulation for proper lubrication at differential pressures over 60 PSI. Optional oil pumps are available for applications with less than 60 PSI differential pressure.

Adjustable Vi allows discharge porting to be selected in the field to match the internal compression to the application requirement for maximum compression efficiency. All iron or steel construction with no copper or copper alloys makes these compressors compatible with natural gas, sweet or sour.



Variable Vi



HG24XXXVIEP
Compressor with Standard Shaft,
Versatrol & Oil Pump



HG24XXXVFEP
Compressor with SAE #1 Bell Housing,
Versatrol & Oil Pump

Options & Specifications

Technical Specifications

- Model HG24
- Rotor Diameter 245 mm (9.64 inches)
- Rotor L/D 1.65
- Rotor Description
 - Twin Screw SRM Profile with Sealing Strips, 4 Lobe Male, 6 Lobe Female
- Shaft Seal(s) - Mechanical*
- Drive System
 - Internal Helical Speed Increasing Gears (AGMA 11)
 - Gear Ratios of .717 - 2.617 are available
 - Rotation - Facing Shaft - CW, Drive Shaft 2½" Dia. with ⅝" Square Key
- Materials
 - Rotors - Ductile Iron 65-45-12
 - Castings - Ductile Iron 65-45-12/Cast Iron G3000
 - Bearings - Roller bearings on the inlet end and tapered roller bearings on the discharge end - alloy steel races, rolling elements and cages.
- Weight
 - 2,250 lbs

* LeROI's mechanical seals prevent air from entering the gas stream when operated with any attainable vacuum inlet gas pressure.

Options

- Versatrol Internal Bypass Valves
 - Versatrol internal bypass valves are available for efficient capacity control from 100-50% of design flow. Control can be manual with four steps or stepless with a microprocessor. Control system is not included.
- Internal Volume Ratio
 - The HG24 has LeROI's standard externally adjustable Vi feature, allowing internal compression optimization while the compressor is operating. Fixed Vi of H = 4.4, M = 3.0 and L = 1.9 are also available.
- Oil Pump
 - Integral oil pumps are available for low-pressure differential applications.
- SAE # 1 Flywheel Housing
- SAE # 0 Flywheel Housing Adapter
- Modules with gas/oil reservoir assembly, thermal valve, oil filter assembly, minimum pressure valve and sight glass are all mounted on a steel sub-base with connected components.

Applications

- Gas Gathering
- Well Head Gas Compression
- Fuel Gas Boosting
- Vapor Recovery
- Inert Gas Boosting
- Landfill Gas

Gardner
Denver[®]

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